SEQUENCE LISTING

<110> LAL, Preeti
YUE, Henry
TANG, Y. Tom
BANDMAN, Olga
BURFORD, Neil
AZIMZAI, Yalda
BAUGHN, Mariah R.
LU, Dyung Aina M.
PATTERSON, Chandra

<120> MEMBRANE ASSOCIATED PROTEINS

<130> PF-0731 USA

<140> To Be Assigned
<141> Herewith

<150> 60/149,641; 60/164,203; PCT/US00/22315
<151> 1999-08-17; 1999-11-09; 2000-08-14

<160> 74
<170> PERL Program

<210> 1
<211> 351
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 112301CD1

<400> 1
Met Thr Leu Arg Leu Leu Glu Asp Trp Cys Arg Gly Met Asp Met
1 5 10 15
Asn Pro Arg Lys Ala Leu Leu Ile Ala Gly Ile Ser Gln Ser Cys
20 25 30
Ser Val Ala Glu Ile Glu Glu Ala Leu Gln Ala Gly Leu Ala Pro
35 40 45
Leu Gly Glu Tyr Arg Leu Leu Gly Arg Met Phe Arg Arg Asp Glu
50 55 60
Asn Arg Lys Val Ala Leu Val Gly Leu Thr Ala Glu Thr Ser His
65 70 75
Ala Leu Val Pro Lys Glu Ile Pro Gly Lys Gly Gly Ile Trp Arg
80 85 90
Val Ile Phe Lys Pro Pro Asp Pro Asp Asn Thr Phe Leu Ser Arg
95 100 105
Leu Asn Glu Phe Leu Ala Gly Glu Gly Met Thr Val Gly Glu Leu
110 115 120
Ser Arg Ala Leu Gly His Glu Asn Gly Ser Leu Asp Pro Glu Gln
125 130 135
Gly Met Ile Pro Glu Met Trp Ala Pro Met Leu Ala Gln Ala Leu

```
                140                 145                 150
Glu Ala Leu Gln Pro Ala Leu Gln Cys Leu Lys Tyr Lys Lys Leu
                155                 160                 165
Arg Val Phe Ser Gly Arg Glu Ser Pro Glu Pro Gly Glu Glu Glu
                170                 175                 180
Phe Gly Arg Trp Met Phe His Thr Thr Gln Met Ile Lys Ala Trp
                185                 190                 195
Gln Val Pro Asp Val Glu Lys Arg Arg Arg Leu Leu Glu Ser Leu
                200                 205                 210
Arg Gly Pro Ala Leu Asp Val Ile Arg Val Leu Lys Ile Asn Asn
                215                 220                 225
Pro Leu Ile Thr Val Asp Glu Cys Leu Gln Ala Leu Glu Glu Val
                230                 235                 240
Phe Gly Val Thr Asp Asn Pro Arg Glu Leu Gln Val Lys Tyr Leu
                245                 250                 255
Thr Thr Tyr Gln Lys Asp Glu Glu Lys Leu Ser Ala Tyr Val Leu
                260                 265                 270
Arg Leu Glu Pro Leu Leu Gln Lys Leu Val Gln Arg Gly Ala Ile
                275                 280                 285
Glu Arg Asp Ala Val Asn Gln Ala Arg Leu Asp Gln Val Ile Ala
                290                 295                 300
Gly Ala Val His Lys Thr Ile Arg Arg Glu Leu Asn Leu Pro Glu
                305                 310                 315
Asp Gly Pro Ala Pro Gly Phe Leu Gln Leu Leu Val Leu Ile Lys
                320                 325                 330
Asp Tyr Glu Ala Ala Glu Glu Glu Glu Ala Leu Leu Gln Ala Ile
                335                 340                 345
Leu Glu Gly Asn Phe Thr
                350
<210> 2
<211> 458
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 997947CD1

<400> 2
Met Gln Ala Thr Ser Asn Leu Leu Asn Leu Leu Leu Leu Ser Leu
  1               5                  10                  15
Phe Ala Gly Leu Asp Pro Ser Lys Thr Gln Ile Ser Pro Lys Glu
                20                  25                  30
Gly Trp Gln Val Tyr Ser Ser Ala Gln Asp Pro Asp Gly Arg Cys
                35                  40                  45
Ile Cys Thr Val Val Ala Pro Glu Gln Asn Leu Cys Ser Arg Asp
                50                  55                  60
Ala Lys Ser Arg Gln Leu Arg Gln Leu Leu Glu Lys Val Gln Asn
                65                  70                  75
Met Ser Gln Ser Ile Glu Val Leu Asn Leu Arg Thr Gln Arg Asp
                80                  85                  90
Phe Gln Tyr Val Leu Lys Met Glu Thr Gln Met Lys Gly Leu Lys
                95                 100                 105
Ala Lys Phe Arg Gln Ile Glu Asp Asp Arg Lys Thr Leu Met Thr
                110                115                 120
Lys His Phe Gln Glu Leu Lys Glu Lys Met Asp Glu Leu Leu Pro
```

```
                125                 130                 135
Leu Ile Pro Val Leu Glu Gln Tyr Lys Thr Asp Ala Lys Leu Ile
                140                 145                 150
Thr Gln Phe Lys Glu Glu Ile Arg Asn Leu Ser Ala Val Leu Thr
                155                 160                 165
Gly Ile Gln Glu Glu Ile Gly Ala Tyr Asp Tyr Glu Glu Leu His
                170                 175                 180
Gln Arg Val Leu Ser Leu Glu Thr Arg Leu Arg Asp Cys Met Lys
                185                 190                 195
Lys Leu Thr Cys Gly Lys Leu Met Lys Ile Thr Gly Pro Val Thr
                200                 205                 210
Val Lys Thr Ser Gly Thr Arg Phe Gly Ala Trp Met Thr Asp Pro
                215                 220                 225
Leu Ala Ser Glu Lys Asn Asn Arg Val Trp Tyr Met Asp Ser Tyr
                230                 235                 240
Thr Asn Asn Lys Ile Val Arg Glu Tyr Lys Ser Ile Ala Asp Phe
                245                 250                 255
Val Ser Gly Ala Glu Ser Arg Thr Tyr Asn Leu Pro Phe Lys Trp
                260                 265                 270
Ala Gly Thr Asn His Val Val Tyr Asn Gly Ser Leu Tyr Phe Asn
                275                 280                 285
Lys Tyr Gln Ser Asn Ile Ile Ile Lys Tyr Ser Phe Asp Met Gly
                290                 295                 300
Arg Val Leu Ala Gln Arg Ser Leu Glu Tyr Ala Gly Phe His Asn
                305                 310                 315
Val Tyr Pro Tyr Thr Trp Gly Gly Phe Ser Asp Ile Asp Leu Met
                320                 325                 330
Ala Asp Glu Ile Gly Leu Trp Ala Val Tyr Ala Thr Asn Gln Asn
                335                 340                 345
Ala Gly Asn Ile Val Ile Ser Gln Leu Asn Gln Asp Thr Leu Glu
                350                 355                 360
Val Met Lys Ser Trp Ser Thr Gly Tyr Pro Lys Arg Ser Ala Gly
                365                 370                 375
Glu Ser Phe Met Ile Cys Gly Thr Leu Tyr Val Thr Asn Ser His
                380                 385                 390
Leu Thr Gly Ala Lys Val Tyr Tyr Ser Tyr Ser Thr Lys Thr Ser
                395                 400                 405
Thr Tyr Glu Tyr Thr Asp Ile Pro Phe His Asn Gln Tyr Phe His
                410                 415                 420
Ile Ser Met Leu Asp Tyr Asn Ala Arg Asp Arg Ala Leu Tyr Ala
                425                 430                 435
Trp Asn Asn Gly His Gln Val Leu Phe Asn Val Thr Leu Phe His
                440                 445                 450
Ile Ile Lys Thr Glu Asp Asp Thr
                455
<210> 3
<211> 219
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1521513CD1

<400> 3
Met Asn Ser Ser Lys Ser Ser Glu Thr Gln Cys Thr Glu Arg Gly
```

1 5 10 15
Cys Phe Ser Ser Gln Met Phe Leu Trp Thr Val Ala Gly Ile Pro
20 25 30
Ile Leu Phe Leu Ser Ala Cys Phe Ile Thr Arg Cys Val Val Thr
35 40 45
Phe Arg Ile Phe Gln Thr Cys Asp Glu Lys Lys Phe Gln Leu Pro
50 55 60
Glu Asn Phe Thr Glu Leu Ser Cys Tyr Asn Tyr Gly Ser Gly Ser
65 70 75
Val Lys Asn Cys Cys Pro Leu Asn Trp Glu Tyr Phe Gln Ser Ser
80 85 90
Cys Tyr Phe Phe Ser Thr Asp Thr Ile Ser Trp Ala Leu Ser Leu
95 100 105
Lys Asn Cys Ser Ala Met Gly Ala His Leu Val Val Ile Asn Ser
110 115 120
Gln Glu Glu Gln Glu Phe Leu Ser Tyr Lys Lys Pro Lys Met Arg
125 130 135
Glu Phe Phe Ile Gly Leu Ser Asp Gln Val Val Glu Gly Gln Trp
140 145 150
Gln Trp Val Asp Gly Thr Pro Leu Thr Lys Ser Leu Ser Phe Trp
155 160 165
Asp Val Gly Glu Pro Asn Asn Ile Ala Thr Leu Glu Asp Cys Ala
170 175 180
Thr Met Arg Asp Ser Ser Asn Pro Arg Gln Asn Trp Asn Asp Val
185 190 195
Thr Cys Phe Leu Asn Tyr Phe Arg Ile Cys Glu Met Val Gly Ile
200 205 210
Asn Pro Leu Asn Lys Gly Lys Ser Leu
215

<210> 4
<211> 276
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1863994CD1

<400> 4
Met Glu Ser Arg Met Trp Pro Ala Leu Leu Leu Ser His Leu Leu
1 5 10 15
Pro Leu Trp Pro Leu Leu Leu Leu Pro Leu Pro Pro Pro Ala Gln
20 25 30
Gly Ser Ser Ser Ser Pro Arg Thr Pro Pro Ala Pro Ala Arg Pro
35 40 45
Pro Cys Ala Arg Gly Gly Pro Ser Ala Pro Arg His Val Cys Val
50 55 60
Trp Glu Arg Ala Pro Pro Pro Ser Arg Ser Pro Arg Val Pro Arg
65 70 75
Ser Arg Arg Gln Val Leu Pro Gly Thr Ala Pro Pro Ala Thr Pro
80 85 90
Ser Gly Phe Glu Glu Gly Pro Pro Ser Ser Gln Tyr Pro Trp Ala
95 100 105
Ile Val Trp Gly Pro Thr Val Ser Arg Glu Asp Gly Gly Asp Pro
110 115 120
Asn Ser Ala Asn Pro Gly Phe Leu Asp Tyr Gly Phe Ala Ala Pro

```
                125                 130                 135
His Gly Leu Ala Thr Pro His Pro Asn Ser Asp Ser Met Arg Gly
                140                 145                 150
Asp Gly Asp Gly Leu Ile Leu Gly Glu Ala Pro Ala Thr Leu Arg
                155                 160                 165
Pro Phe Leu Phe Gly Gly Arg Gly Glu Gly Val Asp Pro Gln Leu
                170                 175                 180
Tyr Val Thr Ile Thr Ile Ser Ile Ile Ile Val Leu Val Ala Thr
                185                 190                 195
Gly Ile Ile Phe Lys Phe Cys Trp Asp Arg Ser Gln Lys Arg Arg
                200                 205                 210
Arg Pro Ser Gly Gln Gln Gly Ala Leu Arg Gln Glu Glu Ser Gln
                215                 220                 225
Gln Pro Leu Thr Asp Leu Ser Pro Ala Gly Val Thr Val Leu Gly
                230                 235                 240
Ala Phe Gly Asp Ser Pro Thr Pro Thr Pro Asp His Glu Glu Pro
                245                 250                 255
Arg Gly Gly Pro Arg Pro Gly Met Pro His Pro Lys Gly Ala Pro
                260                 265                 270
Ala Phe Gln Leu Asn Arg
                275
<210> 5
<211> 375
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2071941CD1

<400> 5
Met Ser Ser His Lys Gly Ser Val Val Ala Gln Gly Asn Gly Ala
  1               5                  10                  15
Pro Ala Ser Asn Arg Glu Ala Asp Thr Val Glu Leu Ala Glu Leu
                20                  25                  30
Gly Pro Leu Leu Glu Glu Lys Gly Lys Arg Val Ile Ala Asn Pro
                35                  40                  45
Pro Lys Ala Glu Glu Glu Gln Thr Cys Pro Val Pro Gln Glu Glu
                50                  55                  60
Glu Glu Glu Val Arg Val Leu Thr Leu Pro Leu Gln Ala His His
                65                  70                  75
Ala Met Glu Lys Met Glu Glu Phe Val Tyr Lys Val Trp Glu Gly
                80                  85                  90
Arg Trp Arg Val Ile Pro Tyr Asp Val Leu Pro Asp Trp Leu Lys
                95                 100                 105
Asp Asn Asp Tyr Leu Leu His Gly His Arg Pro Pro Met Pro Ser
                110                 115                 120
Phe Arg Ala Cys Phe Lys Ser Ile Phe Arg Ile His Thr Glu Thr
                125                 130                 135
Gly Asn Ile Trp Thr His Leu Leu Gly Phe Val Leu Phe Leu Phe
                140                 145                 150
Leu Gly Ile Leu Thr Met Leu Arg Pro Asn Met Tyr Phe Met Ala
                155                 160                 165
Pro Leu Gln Glu Lys Val Val Phe Gly Met Phe Phe Leu Gly Ala
                170                 175                 180
Val Leu Cys Leu Ser Phe Ser Trp Leu Phe His Thr Val Tyr Cys
```

```
                185                 190                 195
His Ser Glu Lys Val Ser Arg Thr Phe Ser Lys Leu Asp Tyr Ser
                200                 205                 210
Gly Ile Ala Leu Leu Ile Met Gly Ser Phe Val Pro Trp Leu Tyr
                215                 220                 225
Tyr Ser Phe Tyr Cys Ser Pro Gln Pro Arg Leu Ile Tyr Leu Ser
                230                 235                 240
Ile Val Cys Val Leu Gly Ile Ser Ala Ile Ile Val Ala Gln Trp
                245                 250                 255
Asp Arg Phe Ala Thr Pro Lys His Arg Gln Thr Arg Ala Gly Val
                260                 265                 270
Phe Leu Gly Leu Gly Leu Ser Gly Val Val Pro Thr Met His Phe
                275                 280                 285
Thr Ile Ala Glu Gly Phe Val Lys Ala Thr Thr Val Gly Gln Met
                290                 295                 300
Gly Trp Phe Phe Leu Met Ala Val Met Tyr Ile Thr Gly Ala Gly
                305                 310                 315
Leu Tyr Ala Ala Arg Ile Pro Glu Arg Phe Phe Pro Gly Lys Phe
                320                 325                 330
Asp Ile Trp Phe Gln Ser His Gln Ile Phe His Val Leu Val Val
                335                 340                 345
Ala Ala Ala Phe Val His Phe Tyr Gly Val Ser Asn Leu Gln Glu
                350                 355                 360
Phe Arg Tyr Gly Leu Glu Gly Gly Cys Thr Asp Asp Thr Leu Leu
                365                 370                 375

<210> 6
<211> 249
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2172512CD1

<400> 6
Met Ser Gly Val Val Pro Thr Ala Pro Glu Gln Pro Ala Gly Glu
  1               5                  10                  15
Met Glu Asn Gln Thr Lys Pro Pro Asp Pro Arg Pro Asp Ala Pro
                20                  25                  30
Pro Glu Tyr Ser Ser His Phe Leu Pro Gly Pro Pro Gly Thr Ala
                35                  40                  45
Val Pro Pro Pro Thr Gly Tyr Pro Gly Gly Leu Pro Met Gly Tyr
                50                  55                  60
Tyr Ser Pro Gln Gln Pro Ser Thr Phe Pro Leu Tyr Gln Pro Val
                65                  70                  75
Gly Gly Ile His Pro Val Arg Tyr Gln Pro Gly Lys Tyr Pro Met
                80                  85                  90
Pro Asn Gln Ser Val Pro Ile Thr Trp Met Pro Gly Pro Thr Pro
                95                 100                 105
Met Ala Asn Cys Pro Pro Gly Leu Glu Tyr Leu Val Gln Leu Asp
                110                115                 120
Asn Ile His Val Leu Gln His Phe Glu Pro Leu Glu Met Met Thr
                125                130                 135
Cys Phe Glu Thr Asn Asn Arg Tyr Asp Ile Lys Asn Asn Ser Asp
                140                145                 150
```

```
Gln Met Val Tyr Ile Val Thr Glu Asp Thr Asp Asp Phe Thr Arg
                155                 160                 165
Asn Ala Tyr Arg Thr Leu Arg Pro Phe Val Leu Arg Val Thr Asp
                170                 175                 180
Cys Met Gly Arg Glu Ile Met Thr Met Gln Arg Pro Phe Arg Cys
                185                 190                 195
Thr Cys Cys Cys Phe Cys Cys Pro Ser Ala Arg Gln Glu Leu Glu
                200                 205                 210
Val Gln Cys Pro Pro Gly Val Thr Ile Gly Phe Val Ala Glu His
                215                 220                 225
Trp Asn Leu Cys Arg Ala Val Tyr Ser Ile Gln Lys Lys Lys Lys
                230                 235                 240
Lys Ile Ala Ala Gln Ala Tyr Ser Leu
                245
<210> 7
<211> 353
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2483172CD1

<400> 7
Met Ala Met Thr Leu Leu Glu Asp Trp Cys Arg Gly Met Asp Val
  1                 5                  10                  15
Asn Ser Gln Arg Ala Leu Leu Val Trp Gly Ile Pro Val Asn Cys
                 20                  25                  30
Asp Glu Ala Glu Ile Glu Glu Thr Leu Gln Ala Ala Met Pro Gln
                 35                  40                  45
Val Ser Tyr Arg Met Leu Gly Arg Met Phe Trp Arg Glu Glu Asn
                 50                  55                  60
Ala Lys Ala Ala Leu Leu Glu Leu Thr Gly Ala Val Asp Tyr Ala
                 65                  70                  75
Ala Ile Pro Arg Glu Met Pro Gly Lys Gly Gly Val Trp Lys Val
                 80                  85                  90
Leu Phe Lys Pro Pro Thr Ser Asp Ala Glu Phe Leu Glu Arg Leu
                 95                 100                 105
His Leu Phe Leu Ala Arg Glu Gly Trp Thr Val Gln Asp Val Ala
                110                 115                 120
Arg Val Leu Gly Phe Gln Asn Pro Thr Pro Thr Pro Gly Pro Glu
                125                 130                 135
Met Pro Ala Glu Met Leu Asn Tyr Ile Leu Asp Asn Val Ile Gln
                140                 145                 150
Pro Leu Val Glu Ser Ile Trp Tyr Lys Arg Leu Thr Leu Phe Ser
                155                 160                 165
Gly Arg Asp Ile Pro Gly Pro Gly Glu Glu Thr Phe Asp Pro Trp
                170                 175                 180
Leu Glu His Thr Asn Glu Val Leu Glu Glu Trp Gln Val Ser Asp
                185                 190                 195
Val Glu Lys Arg Arg Arg Leu Met Glu Ser Leu Arg Gly Pro Ala
                200                 205                 210
Ala Asp Val Ile Arg Ile Leu Lys Ser Asn Asn Pro Ala Ile Thr
                215                 220                 225
Thr Ala Glu Cys Leu Lys Ala Leu Glu Gln Val Phe Gly Ser Val
                230                 235                 240
```

```
Glu Ser Ser Arg Asp Ala Gln Ile Lys Phe Leu Asn Thr Tyr Gln
                245                 250                 255
Asn Pro Gly Glu Lys Leu Ser Ala Tyr Val Ile Arg Leu Glu Pro
                260                 265                 270
Leu Leu Gln Lys Val Val Glu Lys Gly Ala Ile Asp Lys Asp Asn
                275                 280                 285
Val Asn Gln Ala Arg Leu Glu Gln Val Ile Ala Gly Ala Asn His
                290                 295                 300
Ser Gly Ala Ile Arg Arg Gln Leu Trp Leu Thr Gly Ala Gly Glu
                305                 310                 315
Gly Pro Ala Pro Asn Leu Phe Gln Leu Leu Val Gln Ile Arg Glu
                320                 325                 330
Glu Glu Ala Lys Glu Glu Glu Glu Glu Ala Glu Ala Thr Leu Leu
                335                 340                 345
Gln Leu Gly Leu Glu Gly His Phe
                350
<210> 8
<211> 194
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2656128CD1

<400> 8
Met His Asp Ser Asn Asn Val Glu Lys Asp Ile Thr Pro Ser Glu
  1                 5                  10                  15
Leu Pro Ala Asn Pro Gly Cys Leu His Ser Lys Glu His Ser Ile
                 20                  25                  30
Lys Ala Thr Leu Ile Trp Arg Leu Phe Phe Leu Ile Met Phe Leu
                 35                  40                  45
Thr Ile Ile Val Cys Gly Met Val Ala Ala Leu Ser Ala Ile Arg
                 50                  55                  60
Ala Asn Cys His Gln Glu Pro Ser Val Cys Leu Gln Ala Ala Cys
                 65                  70                  75
Pro Glu Ser Trp Ile Gly Phe Gln Arg Lys Cys Phe Tyr Phe Ser
                 80                  85                  90
Asp Asp Thr Lys Asn Trp Thr Ser Ser Gln Arg Phe Cys Asp Ser
                 95                 100                 105
Gln Asp Ala Asp Leu Ala Gln Val Glu Ser Phe Gln Glu Leu Asn
                110                 115                 120
Phe Leu Leu Arg Tyr Lys Gly Pro Ser Asp His Trp Ile Gly Leu
                125                 130                 135
Ser Arg Glu Gln Gly Gln Pro Trp Lys Trp Ile Asn Gly Thr Glu
                140                 145                 150
Trp Thr Arg Gln Leu Val Met Lys Glu Asp Gly Ala Asn Leu Tyr
                155                 160                 165
Val Ala Lys Val Ser Gln Val Pro Arg Met Asn Pro Arg Pro Val
                170                 175                 180
Met Val Ser Tyr Pro Gly Ser Arg Arg Val Cys Leu Phe Glu
                185                 190
<210> 9
<211> 322
<212> PRT
<213> Homo sapiens
```

<220>
<221> misc_feature
<223> Incyte ID No: 5855841CD1

<400> 9
Met Ser Ser Leu Gly Gly Gly Ser Gln Asp Ala Gly Gly Ser Ser
1 5 10 15
Ser Ser Ser Thr Asn Gly Ser Gly Gly Ser Gly Ser Ser Gly Pro
20 25 30
Lys Ala Gly Ala Ala Asp Lys Ser Ala Val Val Ala Ala Ala Ala
35 40 45
Pro Ala Ser Val Ala Asp Asp Thr Pro Pro Pro Glu Arg Arg Asn
50 55 60
Lys Ser Gly Ile Ile Ser Glu Pro Leu Asn Lys Ser Leu Arg Arg
65 70 75
Ser Arg Pro Leu Ser His Tyr Ser Ser Phe Gly Ser Ser Gly Gly
80 85 90
Ser Gly Gly Gly Ser Met Met Gly Gly Glu Ser Ala Asp Lys Ala
95 100 105
Thr Ala Ala Ala Ala Ala Ala Ser Leu Leu Ala Asn Gly His Asp
110 115 120
Leu Ala Ala Ala Met Ala Val Asp Lys Ser Asn Pro Thr Ser Lys
125 130 135
His Lys Ser Gly Ala Val Ala Ser Leu Leu Ser Lys Ala Glu Arg
140 145 150
Ala Thr Glu Leu Ala Ala Glu Gly Gln Leu Thr Leu Gln Gln Phe
155 160 165
Ala Gln Ser Thr Glu Met Leu Lys Arg Val Val Gln Glu His Leu
170 175 180
Pro Leu Met Ser Glu Ala Gly Ala Gly Leu Pro Asp Met Glu Ala
185 190 195
Val Ala Gly Ala Glu Ala Leu Asn Gly Gln Ser Asp Phe Pro Tyr
200 205 210
Leu Gly Ala Phe Pro Ile Asn Pro Gly Leu Phe Ile Met Thr Pro
215 220 225
Ala Gly Val Phe Leu Ala Glu Ser Ala Leu His Met Ala Gly Leu
230 235 240
Ala Glu Tyr Pro Met Gln Gly Glu Leu Ala Ser Ala Ile Ser Ser
245 250 255
Gly Lys Lys Lys Arg Lys Arg Cys Gly Met Cys Ala Pro Cys Arg
260 265 270
Arg Arg Ile Asn Cys Glu Gln Cys Ser Ser Cys Arg Asn Arg Lys
275 280 285
Thr Gly His Gln Ile Cys Lys Phe Arg Lys Cys Glu Glu Leu Lys
290 295 300
Lys Lys Pro Ser Ala Ala Leu Glu Lys Val Met Leu Pro Thr Gly
305 310 315
Ala Ala Phe Arg Trp Phe Gln
320

<210> 10
<211> 335
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature

<223> Incyte ID No: 603462CD1

<400> 10

```
Met Leu Gln Gly His Ser Ser Val Phe Gln Ala Leu Leu Gly Thr
  1               5                  10                  15
Phe Phe Thr Trp Gly Met Thr Ala Ala Gly Ala Ala Leu Val Phe
                 20                  25                  30
Val Phe Ser Ser Gly Gln Arg Arg Ile Leu Asp Gly Ser Leu Gly
                 35                  40                  45
Phe Ala Ala Gly Val Met Leu Ala Ala Ser Tyr Trp Ser Leu Leu
                 50                  55                  60
Ala Pro Ala Val Glu Met Ala Thr Ser Ser Gly Gly Phe Gly Ala
                 65                  70                  75
Phe Ala Phe Phe Pro Val Ala Val Gly Phe Thr Leu Gly Ala Ala
                 80                  85                  90
Phe Val Tyr Leu Ala Asp Leu Leu Met Pro His Leu Gly Ala Ala
                 95                 100                 105
Glu Asp Pro Gln Thr Ala Leu Ala Leu Asn Phe Gly Ser Thr Leu
                110                 115                 120
Met Lys Lys Lys Ser Asp Pro Glu Gly Pro Ala Leu Leu Phe Pro
                125                 130                 135
Glu Ser Glu Leu Ser Ile Arg Ile Asp Lys Ser Glu Asn Gly Glu
                140                 145                 150
Ala Tyr Gln Arg Lys Lys Ala Ala Ala Thr Gly Leu Pro Glu Gly
                155                 160                 165
Pro Ala Val Pro Val Pro Ser Arg Gly Asn Leu Ala Gln Pro Gly
                170                 175                 180
Gly Ser Ser Trp Arg Arg Ile Ala Leu Leu Ile Leu Ala Ile Thr
                185                 190                 195
Ile His Asn Val Pro Glu Gly Leu Ala Val Gly Val Gly Phe Gly
                200                 205                 210
Ala Ile Glu Lys Thr Ala Ser Ala Thr Phe Glu Ser Ala Arg Asn
                215                 220                 225
Leu Ala Ile Gly Ile Gly Ile Gln Asn Phe Pro Glu Gly Leu Ala
                230                 235                 240
Val Ser Leu Pro Leu Arg Gly Ala Gly Phe Ser Thr Trp Arg Ala
                245                 250                 255
Phe Trp Tyr Gly Gln Leu Ser Gly Met Val Glu Pro Leu Ala Gly
                260                 265                 270
Val Phe Gly Ala Phe Ala Val Val Leu Ala Glu Pro Ile Leu Pro
                275                 280                 285
Tyr Ala Leu Ala Phe Ala Ala Gly Ala Met Val Tyr Val Val Met
                290                 295                 300
Asp Asp Ile Ile Pro Glu Ala Gln Ile Ser Gly Asn Gly Lys Leu
                305                 310                 315
Ala Ser Trp Ala Ser Ile Leu Gly Phe Val Val Met Met Ser Leu
                320                 325                 330
Asp Val Gly Leu Gly
                335
```

<210> 11
<211> 620
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature

<223> Incyte ID No: 747681CD1

<400> 11
Met Gln Val Ser Lys Arg Met Leu Ala Gly Gly Val Arg Ser Met
1 5 10 15
Pro Ser Pro Leu Leu Ala Cys Trp Gln Pro Ile Leu Leu Leu Val
20 25 30
Leu Gly Ser Val Leu Ser Gly Ser Ala Thr Gly Cys Pro Pro Arg
35 40 45
Cys Glu Cys Ser Ala Gln Asp Arg Ala Val Leu Cys His Arg Lys
50 55 60
Arg Phe Val Ala Val Pro Glu Gly Ile Pro Thr Glu Thr Arg Leu
65 70 75
Leu Asp Leu Gly Lys Asn Arg Ile Lys Thr Leu Asn Gln Asp Glu
80 85 90
Phe Ala Ser Phe Pro His Leu Glu Glu Leu Glu Leu Asn Glu Asn
95 100 105
Ile Val Ser Ala Val Glu Pro Gly Ala Phe Asn Asn Leu Phe Asn
110 115 120
Leu Arg Thr Leu Gly Leu Arg Ser Asn Arg Leu Lys Leu Ile Pro
125 130 135
Leu Gly Val Phe Thr Gly Leu Ser Asn Leu Thr Lys Leu Asp Ile
140 145 150
Ser Glu Asn Lys Ile Val Ile Leu Leu Asp Tyr Met Phe Gln Asp
155 160 165
Leu Tyr Asn Leu Lys Ser Leu Glu Val Gly Asp Asn Asp Leu Val
170 175 180
Tyr Ile Ser His Arg Ala Phe Ser Gly Leu Asn Ser Leu Glu Gln
185 190 195
Leu Thr Leu Glu Lys Cys Asn Leu Thr Ser Ile Pro Thr Glu Ala
200 205 210
Leu Ser His Leu His Gly Leu Ile Val Leu Arg Leu Arg His Leu
215 220 225
Asn Ile Asn Ala Ile Arg Asp Tyr Ser Phe Lys Arg Leu Tyr Arg
230 235 240
Leu Lys Val Leu Glu Ile Ser His Trp Pro Tyr Leu Asp Thr Met
245 250 255
Thr Pro Asn Cys Leu Tyr Gly Leu Asn Leu Thr Ser Leu Ser Ile
260 265 270
Thr His Cys Asn Leu Thr Ala Val Pro Tyr Leu Ala Val Arg His
275 280 285
Leu Val Tyr Leu Arg Phe Leu Asn Leu Ser Tyr Asn Pro Ile Ser
290 295 300
Thr Ile Glu Gly Ser Met Leu His Glu Leu Leu Arg Leu Gln Glu
305 310 315
Ile Gln Leu Val Gly Gly Gln Leu Ala Val Val Glu Pro Tyr Ala
320 325 330
Phe Arg Gly Leu Asn Tyr Leu Arg Val Leu Asn Val Ser Gly Asn
335 340 345
Gln Leu Thr Thr Leu Glu Glu Ser Val Phe His Ser Val Gly Asn
350 355 360
Leu Glu Thr Leu Ile Leu Asp Ser Asn Pro Leu Ala Cys Asp Cys
365 370 375
Arg Leu Leu Trp Val Phe Arg Arg Arg Trp Arg Leu Asn Phe Asn
380 385 390
Arg Gln Gln Pro Thr Cys Ala Thr Pro Glu Phe Val Gln Gly Lys

```
                395                 400                 405
Glu Phe Lys Asp Phe Pro Asp Val Leu Leu Pro Asn Tyr Phe Thr
                410                 415                 420
Cys Arg Arg Ala Arg Ile Arg Asp Arg Lys Ala Gln Gln Val Phe
                425                 430                 435
Val Asp Glu Gly His Thr Val Gln Phe Val Cys Arg Ala Asp Gly
                440                 445                 450
Asp Pro Pro Pro Ala Ile Leu Trp Leu Ser Pro Arg Lys His Leu
                455                 460                 465
Val Ser Ala Lys Ser Asn Gly Arg Leu Thr Val Phe Pro Asp Gly
                470                 475                 480
Thr Leu Glu Val Arg Tyr Ala Gln Val Gln Asp Asn Gly Thr Tyr
                485                 490                 495
Leu Cys Ile Ala Ala Asn Ala Gly Gly Asn Asp Ser Met Pro Ala
                500                 505                 510
His Leu His Val Arg Ser Tyr Ser Pro Asp Trp Pro His Gln Pro
                515                 520                 525
Asn Lys Thr Phe Ala Phe Ile Ser Asn Gln Pro Gly Glu Gly Glu
                530                 535                 540
Ala Asn Ser Thr Arg Ala Thr Val Pro Phe Pro Phe Asp Ile Lys
                545                 550                 555
Thr Leu Ile Ile Ala Thr Thr Met Gly Phe Ile Ser Phe Leu Gly
                560                 565                 570
Val Val Leu Phe Cys Leu Val Leu Leu Phe Leu Trp Ser Arg Gly
                575                 580                 585
Lys Gly Asn Thr Lys His Asn Ile Glu Ile Glu Tyr Val Pro Arg
                590                 595                 600
Lys Ser Asp Ala Gly Ile Ser Ser Ala Asp Ala Pro Arg Lys Phe
                605                 610                 615
Asn Met Lys Met Ile
                620
<210> 12
<211> 491
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 919469CD1

<400> 12
Met Ala Gly Gln Gly Leu Pro Leu His Val Ala Thr Leu Leu Thr
  1                 5                  10                  15
Gly Leu Leu Glu Cys Leu Gly Phe Ala Gly Val Leu Phe Gly Trp
                 20                  25                  30
Pro Ser Leu Val Phe Val Phe Lys Asn Glu Asp Tyr Phe Lys Asp
                 35                  40                  45
Leu Cys Gly Pro Asp Ala Gly Pro Ile Gly Asn Ala Thr Gly Gln
                 50                  55                  60
Ala Asp Cys Lys Ala Gln Asp Glu Arg Phe Ser Leu Ile Phe Thr
                 65                  70                  75
Leu Gly Ser Phe Met Asn Asn Phe Met Thr Phe Pro Thr Gly Tyr
                 80                  85                  90
Ile Phe Asp Arg Phe Lys Thr Thr Val Ala Arg Leu Ile Ala Ile
                 95                 100                 105
Phe Phe Tyr Thr Thr Ala Thr Leu Ile Ile Ala Phe Thr Ser Ala
```

```
                110                 115                 120
Gly Ser Ala Val Leu Leu Phe Leu Ala Met Pro Met Leu Thr Ile
                125                 130                 135
Gly Gly Ile Leu Phe Leu Ile Thr Asn Leu Gln Ile Gly Asn Leu
                140                 145                 150
Phe Gly Gln His Arg Ser Thr Ile Ile Thr Leu Tyr Asn Gly Ala
                155                 160                 165
Phe Asp Ser Ser Ser Ala Val Phe Leu Ile Ile Lys Leu Leu Tyr
                170                 175                 180
Glu Lys Gly Ile Ser Leu Arg Ala Ser Phe Ile Phe Ile Ser Val
                185                 190                 195
Cys Ser Thr Trp His Val Ala Arg Thr Phe Leu Leu Met Pro Arg
                200                 205                 210
Gly His Ile Pro Tyr Pro Leu Pro Pro Asn Tyr Ser Tyr Gly Leu
                215                 220                 225
Cys Pro Gly Asn Gly Thr Thr Lys Glu Glu Lys Glu Thr Ala Glu
                230                 235                 240
His Glu Asn Arg Glu Leu Gln Ser Lys Glu Phe Leu Ser Ala Lys
                245                 250                 255
Glu Glu Thr Pro Gly Ala Gly Gln Lys Gln Glu Leu Arg Ser Phe
                260                 265                 270
Trp Ser Tyr Ala Phe Ser Arg Arg Phe Ala Trp His Leu Val Trp
                275                 280                 285
Leu Ser Val Ile Gln Leu Trp His Tyr Leu Phe Ile Gly Thr Leu
                290                 295                 300
Asn Ser Leu Leu Thr Asn Met Ala Gly Gly Asp Met Ala Arg Val
                305                 310                 315
Ser Thr Tyr Thr Asn Ala Phe Ala Phe Thr Gln Phe Gly Val Leu
                320                 325                 330
Cys Ala Pro Trp Asn Gly Leu Leu Met Asp Arg Leu Lys Gln Lys
                335                 340                 345
Tyr Gln Lys Glu Ala Arg Lys Thr Gly Ser Ser Thr Leu Ala Val
                350                 355                 360
Ala Leu Cys Ser Thr Val Pro Ser Leu Ala Leu Thr Ser Leu Leu
                365                 370                 375
Cys Leu Gly Phe Ala Leu Cys Ala Ser Val Pro Ile Leu Pro Leu
                380                 385                 390
Gln Tyr Leu Thr Phe Ile Leu Gln Val Ile Ser Arg Ser Phe Leu
                395                 400                 405
Tyr Gly Ser Asn Ala Ala Phe Leu Thr Leu Ala Phe Pro Ser Glu
                410                 415                 420
His Phe Gly Lys Leu Phe Gly Leu Val Met Ala Leu Ser Ala Val
                425                 430                 435
Val Ser Leu Leu Gln Phe Pro Ile Phe Thr Leu Ile Lys Gly Ser
                440                 445                 450
Leu Gln Asn Asp Pro Phe Tyr Val Asn Val Met Phe Met Leu Ala
                455                 460                 465
Ile Leu Leu Thr Phe Phe His Pro Phe Leu Val Tyr Arg Glu Cys
                470                 475                 480
Arg Thr Trp Lys Glu Ser Pro Ser Ala Ile Ala
                485                 490
```

<210> 13
<211> 580
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 977658CD1

<400> 13

```
Met Thr Ala Pro Ala Gly Pro Arg Gly Ser Glu Thr Glu Arg Leu
  1               5                  10                  15
Leu Thr Pro Asn Pro Gly Tyr Gly Thr Gln Ala Gly Pro Ser Pro
             20                  25                  30
Ala Pro Pro Thr Pro Pro Glu Glu Glu Asp Leu Arg Arg Arg Leu
             35                  40                  45
Lys Tyr Phe Phe Met Ser Pro Cys Asp Lys Phe Arg Ala Lys Gly
             50                  55                  60
Arg Lys Pro Cys Lys Leu Met Leu Gln Val Val Lys Ile Leu Val
             65                  70                  75
Val Thr Val Gln Leu Ile Leu Phe Gly Leu Ser Asn Gln Leu Ala
             80                  85                  90
Val Thr Phe Arg Glu Glu Asn Thr Ile Ala Phe Arg His Leu Phe
             95                 100                 105
Leu Leu Gly Tyr Ser Asp Gly Ala Asp Asp Thr Phe Ala Ala Tyr
            110                 115                 120
Thr Arg Glu Gln Leu Tyr Gln Ala Ile Phe His Ala Val Asp Gln
            125                 130                 135
Tyr Leu Ala Leu Pro Asp Val Ser Leu Gly Arg Tyr Ala Tyr Val
            140                 145                 150
Arg Gly Gly Gly Asp Pro Trp Thr Asn Gly Ser Gly Leu Ala Leu
            155                 160                 165
Cys Gln Arg Tyr Tyr His Arg Gly His Val Asp Pro Ala Asn Asp
            170                 175                 180
Thr Phe Asp Ile Asp Pro Met Val Val Thr Asp Cys Ile Gln Val
            185                 190                 195
Asp Pro Pro Glu Arg Pro Pro Pro Pro Pro Ser Asp Asp Leu Thr
            200                 205                 210
Leu Leu Glu Ser Ser Ser Ser Tyr Lys Asn Leu Thr Leu Lys Phe
            215                 220                 225
His Lys Leu Val Asn Val Thr Ile His Phe Arg Leu Lys Thr Ile
            230                 235                 240
Asn Leu Gln Ser Leu Ile Asn Asn Glu Ile Pro Asp Cys Tyr Thr
            245                 250                 255
Phe Ser Val Leu Ile Thr Phe Asp Asn Lys Ala His Ser Gly Arg
            260                 265                 270
Ile Pro Ile Ser Leu Glu Thr Gln Ala His Ile Gln Glu Cys Lys
            275                 280                 285
His Pro Ser Val Phe Gln His Gly Asp Asn Ser Phe Arg Leu Leu
            290                 295                 300
Phe Asp Val Val Val Ile Leu Thr Cys Ser Leu Ser Phe Leu Leu
            305                 310                 315
Cys Ala Arg Ser Leu Leu Arg Gly Phe Leu Leu Gln Asn Glu Phe
            320                 325                 330
Val Gly Phe Met Trp Arg Gln Arg Gly Arg Val Ile Ser Leu Trp
            335                 340                 345
Glu Arg Leu Glu Phe Val Asn Gly Trp Tyr Ile Leu Leu Val Thr
            350                 355                 360
Ser Asp Val Leu Thr Ile Ser Gly Thr Ile Met Lys Ile Gly Ile
            365                 370                 375
Glu Ala Lys Asn Leu Ala Ser Tyr Asp Val Cys Ser Ile Leu Leu
```

```
                380                 385                 390
Gly Thr Ser Thr Leu Leu Val Trp Val Gly Val Ile Arg Tyr Leu
                395                 400                 405
Thr Phe Phe His Asn Tyr Asn Ile Leu Ile Ala Thr Leu Arg Val
                410                 415                 420
Ala Leu Pro Ser Val Met Arg Phe Cys Cys Cys Val Ala Val Ile
                425                 430                 435
Tyr Leu Gly Tyr Cys Phe Cys Gly Trp Ile Val Leu Gly Pro Tyr
                440                 445                 450
His Val Lys Phe Arg Ser Leu Ser Met Val Ser Glu Cys Leu Phe
                455                 460                 465
Ser Leu Ile Asn Gly Asp Asp Met Phe Val Thr Phe Ala Ala Met
                470                 475                 480
Gln Ala Gln Gln Gly Arg Ser Ser Leu Val Trp Leu Phe Ser Gln
                485                 490                 495
Leu Tyr Leu Tyr Ser Phe Ile Ser Leu Phe Ile Tyr Met Val Leu
                500                 505                 510
Ser Leu Phe Ile Ala Leu Ile Thr Gly Ala Tyr Asp Thr Ile Lys
                515                 520                 525
His Pro Gly Gly Ala Gly Ala Glu Glu Ser Glu Leu Gln Ala Tyr
                530                 535                 540
Ile Ala Gln Cys Gln Asp Ser Pro Thr Ser Gly Lys Phe Arg Arg
                545                 550                 555
Gly Ser Gly Ser Ala Cys Ser Leu Leu Cys Cys Cys Gly Arg Asp
                560                 565                 570
Pro Ser Glu Glu His Ser Leu Leu Val Asn
                575                 580
```

<210> 14
<211> 455
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1004703CD1

<400> 14

```
Met Ser Phe Leu Ile Asp Ser Ser Ile Met Ile Thr Ser Gln Ile
  1               5                  10                  15
Leu Phe Phe Gly Phe Gly Trp Leu Phe Phe Met Arg Gln Leu Phe
                 20                  25                  30
Lys Asp Tyr Glu Ile Arg Gln Tyr Val Val Gln Val Ile Phe Ser
                 35                  40                  45
Val Thr Phe Ala Phe Ser Cys Thr Met Phe Glu Leu Ile Ile Phe
                 50                  55                  60
Glu Ile Leu Gly Val Leu Asn Ser Ser Ser Arg Tyr Phe His Trp
                 65                  70                  75
Lys Met Asn Leu Cys Val Ile Leu Leu Ile Leu Val Phe Met Val
                 80                  85                  90
Pro Phe Tyr Ile Gly Tyr Phe Ile Val Ser Asn Ile Arg Leu Leu
                 95                 100                 105
His Lys Gln Arg Leu Leu Phe Ser Cys Leu Leu Trp Leu Thr Phe
                110                 115                 120
Met Tyr Phe Phe Trp Lys Leu Gly Asp Leu Phe Pro Ile Leu Ser
                125                 130                 135
Pro Lys His Gly Ile Leu Ser Ile Glu Gln Leu Ile Ser Arg Val
```

```
                140                 145                 150
Gly Val Ile Gly Val Thr Leu Met Ala Leu Leu Ser Gly Phe Gly
                155                 160                 165
Ala Val Asn Cys Pro Tyr Thr Tyr Met Ser Tyr Phe Leu Arg Asn
                170                 175                 180
Val Thr Asp Thr Asp Ile Leu Ala Leu Glu Arg Arg Leu Leu Gln
                185                 190                 195
Thr Met Asp Met Ile Ile Ser Lys Lys Lys Arg Met Ala Met Ala
                200                 205                 210
Arg Arg Thr Met Phe Gln Lys Gly Glu Val His Asn Lys Pro Ser
                215                 220                 225
Gly Phe Trp Gly Met Ile Lys Ser Val Thr Thr Ser Ala Ser Gly
                230                 235                 240
Ser Glu Asn Leu Thr Leu Ile Gln Gln Glu Val Asp Ala Leu Glu
                245                 250                 255
Glu Leu Ser Arg Gln Leu Phe Leu Glu Thr Ala Asp Leu Tyr Ala
                260                 265                 270
Thr Lys Glu Arg Ile Glu Tyr Ser Lys Thr Phe Lys Gly Lys Tyr
                275                 280                 285
Phe Asn Phe Leu Gly Tyr Phe Phe Ser Ile Tyr Cys Val Trp Lys
                290                 295                 300
Ile Phe Met Ala Thr Ile Asn Ile Val Phe Asp Arg Val Gly Lys
                305                 310                 315
Thr Asp Pro Val Thr Arg Gly Ile Glu Ile Thr Val Asn Tyr Leu
                320                 325                 330
Gly Ile Gln Phe Asp Val Lys Phe Trp Ser Gln His Ile Ser Phe
                335                 340                 345
Ile Leu Val Gly Ile Ile Ile Val Thr Ser Ile Arg Gly Leu Leu
                350                 355                 360
Ile Thr Leu Thr Lys Phe Phe Tyr Ala Ile Ser Ser Ser Lys Ser
                365                 370                 375
Ser Asn Val Ile Val Leu Leu Leu Ala Gln Ile Met Gly Met Tyr
                380                 385                 390
Phe Val Ser Ser Val Leu Leu Ile Arg Met Ser Met Pro Leu Glu
                395                 400                 405
Tyr Arg Thr Ile Ile Thr Glu Val Leu Gly Glu Leu Gln Phe Asn
                410                 415                 420
Phe Tyr His Arg Trp Phe Asp Val Ile Phe Leu Val Ser Ala Leu
                425                 430                 435
Ser Ser Ile Leu Phe Leu Tyr Leu Ala His Lys Gln Ala Pro Glu
                440                 445                 450
Lys Gln Met Ala Pro
                455
```

<210> 15
<211> 277
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1334051CD1

<400> 15

```
Met Lys Ile Ser Met Ile Asn Tyr Lys Ser Leu Leu Ala Leu Leu
  1               5                  10                  15
Phe Ile Leu Ala Ser Trp Ile Ile Phe Thr Val Phe Gln Asn Ser
```

```
                  20                  25                  30
Thr Lys Val Trp Ser Ala Leu Asn Leu Ser Ile Ser Leu His Tyr
                  35                  40                  45
Trp Asn Asn Ser Thr Lys Ser Leu Phe Pro Lys Thr Pro Leu Ile
                  50                  55                  60
Ser Leu Lys Pro Leu Thr Glu Thr Glu Leu Arg Ile Lys Glu Ile
                  65                  70                  75
Ile Glu Lys Leu Asp Gln Gln Ile Pro Pro Arg Pro Phe Thr His
                  80                  85                  90
Val Asn Thr Thr Thr Ser Ala Thr His Ser Thr Ala Thr Ile Leu
                  95                 100                 105
Asn Pro Arg Asp Thr Tyr Cys Arg Gly Asp Gln Leu His Ile Leu
                 110                 115                 120
Leu Glu Val Arg Asp His Leu Gly Arg Arg Lys Gln Tyr Gly Gly
                 125                 130                 135
Asp Phe Leu Arg Ala Arg Met Ser Ser Pro Ala Leu Met Ala Gly
                 140                 145                 150
Ala Ser Gly Lys Val Thr Asp Phe Asn Asn Gly Thr Tyr Leu Val
                 155                 160                 165
Ser Phe Thr Leu Phe Trp Glu Gly Gln Val Ser Leu Ser Leu Leu
                 170                 175                 180
Leu Ile His Pro Ser Glu Gly Val Ser Ala Leu Trp Ser Ala Arg
                 185                 190                 195
Asn Gln Gly Tyr Asp Arg Val Ile Phe Thr Gly Gln Phe Val Asn
                 200                 205                 210
Gly Thr Ser Gln Val His Ser Glu Cys Gly Leu Ile Leu Asn Thr
                 215                 220                 225
Asn Ala Glu Leu Cys Gln Tyr Leu Asp Asn Arg Asp Gln Glu Gly
                 230                 235                 240
Phe Tyr Cys Val Arg Pro Gln His Met Pro Cys Ala Ala Leu Thr
                 245                 250                 255
His Met Tyr Ser Lys Asn Lys Lys Val Ser Tyr Leu Ser Lys Gln
                 260                 265                 270
Glu Lys Ser Leu Phe Glu Arg
                 275
```


<210> 16
<211> 647
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1336728CD1

<400> 16

```
Met Ala Ser Leu Val Ser Leu Glu Leu Gly Leu Leu Leu Ala Val
  1               5                  10                  15
Leu Val Val Thr Ala Thr Ala Ser Pro Pro Ala Gly Leu Leu Ser
                 20                  25                  30
Leu Leu Thr Ser Gly Gln Gly Ala Leu Asp Gln Glu Ala Leu Gly
                 35                  40                  45
Gly Leu Leu Asn Thr Leu Ala Asp Arg Val His Cys Thr Asn Gly
                 50                  55                  60
Pro Cys Gly Lys Cys Leu Ser Val Glu Asp Ala Leu Gly Leu Gly
                 65                  70                  75
Glu Pro Glu Gly Ser Gly Leu Pro Pro Gly Pro Val Leu Glu Ala
```

```
                  80                  85                  90
Arg Tyr Val Ala Arg Leu Ser Ala Ala Ala Val Leu Tyr Leu Ser
                  95                 100                 105
Asn Pro Glu Gly Thr Cys Glu Asp Thr Arg Ala Gly Leu Trp Ala
                 110                 115                 120
Ser His Ala Asp His Leu Leu Ala Leu Leu Glu Ser Pro Lys Ala
                 125                 130                 135
Leu Thr Pro Gly Leu Ser Trp Leu Leu Gln Arg Met Gln Ala Arg
                 140                 145                 150
Ala Ala Gly Gln Thr Pro Lys Thr Ala Cys Val Asp Ile Pro Gln
                 155                 160                 165
Leu Leu Glu Glu Ala Val Gly Ala Gly Ala Pro Gly Ser Ala Gly
                 170                 175                 180
Gly Val Leu Ala Ala Leu Leu Asp His Val Arg Ser Gly Ser Cys
                 185                 190                 195
Phe His Ala Leu Pro Ser Pro Gln Tyr Phe Val Asp Phe Val Phe
                 200                 205                 210
Gln Gln His Ser Ser Glu Val Pro Met Thr Leu Ala Glu Leu Ser
                 215                 220                 225
Ala Leu Met Gln Arg Leu Gly Val Gly Arg Glu Ala His Ser Asp
                 230                 235                 240
His Ser His Arg His Arg Gly Ala Ser Ser Arg Asp Pro Val Pro
                 245                 250                 255
Leu Ile Ser Ser Ser Asn Ser Ser Ser Val Trp Asp Thr Val Cys
                 260                 265                 270
Leu Ser Ala Arg Asp Val Met Ala Ala Tyr Gly Leu Ser Glu Gln
                 275                 280                 285
Ala Gly Val Thr Pro Glu Ala Trp Ala Gln Leu Ser Pro Ala Leu
                 290                 295                 300
Leu Gln Gln Gln Leu Ser Gly Ala Cys Thr Ser Gln Ser Arg Pro
                 305                 310                 315
Pro Val Gln Asp Gln Leu Ser Gln Ser Glu Arg Tyr Leu Tyr Gly
                 320                 325                 330
Ser Leu Ala Thr Leu Leu Ile Cys Leu Cys Ala Val Phe Gly Leu
                 335                 340                 345
Leu Leu Leu Thr Cys Thr Gly Cys Arg Gly Val Thr His Tyr Ile
                 350                 355                 360
Leu Gln Thr Phe Leu Ser Leu Ala Val Gly Ala Leu Thr Gly Asp
                 365                 370                 375
Ala Val Leu His Leu Thr Pro Lys Val Leu Gly Leu His Thr His
                 380                 385                 390
Ser Glu Glu Gly Leu Ser Pro Gln Pro Thr Trp Arg Leu Leu Ala
                 395                 400                 405
Met Leu Ala Gly Leu Tyr Ala Phe Phe Leu Phe Glu Asn Leu Phe
                 410                 415                 420
Asn Leu Leu Leu Pro Arg Asp Pro Glu Asp Leu Glu Asp Gly Pro
                 425                 430                 435
Cys Gly His Ser Ser His Ser His Gly Gly His Ser His Gly Val
                 440                 445                 450
Ser Leu Gln Leu Ala Pro Ser Glu Leu Arg Gln Pro Lys Pro Pro
                 455                 460                 465
His Glu Gly Ser Arg Ala Asp Leu Val Ala Glu Glu Ser Pro Glu
                 470                 475                 480
Leu Leu Asn Pro Glu Pro Arg Arg Leu Ser Pro Glu Leu Arg Leu
                 485                 490                 495
Leu Pro Tyr Met Ile Thr Leu Gly Asp Ala Val His Asn Phe Ala
```

500 505 510
Asp Gly Leu Ala Val Gly Ala Ala Phe Ala Ser Ser Trp Lys Thr
515 520 525
Gly Leu Ala Thr Ser Leu Ala Val Phe Cys His Glu Leu Pro His
530 535 540
Glu Leu Gly Asp Phe Ala Ala Leu Leu His Ala Gly Leu Ser Val
545 550 555
Arg Gln Ala Leu Leu Leu Asn Leu Ala Ser Ala Leu Thr Ala Phe
560 565 570
Ala Gly Leu Tyr Val Ala Leu Ala Val Gly Val Ser Glu Glu Ser
575 580 585
Glu Ala Trp Ile Leu Ala Val Ala Thr Gly Leu Phe Leu Tyr Val
590 595 600
Ala Leu Cys Asp Met Leu Pro Ala Met Leu Lys Val Arg Asp Pro
605 610 615
Arg Pro Trp Leu Leu Phe Leu Leu His Asn Val Gly Leu Leu Gly
620 625 630
Gly Trp Thr Val Leu Leu Leu Leu Ser Leu Tyr Glu Asp Asp Ile
635 640 645
Thr Phe

<210> 17
<211> 406
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1452856CD1

<400> 17
Met Ala Glu Asn Gly Lys Asn Cys Asp Gln Arg Arg Val Ala Met
1 5 10 15
Asn Lys Glu His His Asn Gly Asn Phe Thr Asp Pro Ser Ser Val
20 25 30
Asn Glu Lys Lys Arg Arg Glu Arg Glu Glu Arg Gln Asn Ile Val
35 40 45
Leu Trp Arg Gln Pro Leu Ile Thr Leu Gln Tyr Phe Ser Leu Glu
50 55 60
Ile Leu Val Ile Leu Lys Glu Trp Thr Ser Lys Leu Trp His Arg
65 70 75
Gln Ser Ile Val Val Ser Phe Leu Leu Leu Leu Ala Val Leu Ile
80 85 90
Ala Thr Tyr Tyr Val Glu Gly Val His Gln Gln Tyr Val Gln Arg
95 100 105
Ile Glu Lys Gln Phe Leu Leu Tyr Ala Tyr Trp Ile Gly Leu Gly
110 115 120
Ile Leu Ser Ser Val Gly Leu Gly Thr Gly Leu His Thr Phe Leu
125 130 135
Leu Tyr Leu Gly Pro His Ile Ala Ser Val Thr Leu Ala Ala Tyr
140 145 150
Glu Cys Asn Ser Val Asn Phe Pro Glu Pro Pro Tyr Pro Asp Gln
155 160 165
Ile Ile Cys Pro Asp Glu Glu Gly Thr Glu Gly Thr Ile Ser Leu
170 175 180
Trp Ser Ile Ile Ser Lys Val Arg Ile Glu Ala Cys Met Trp Gly

```
                185                 190                 195
Ile Gly Thr Ala Ile Gly Glu Leu Pro Pro Tyr Phe Met Ala Arg
                200                 205                 210
Ala Ala Arg Leu Ser Gly Ala Glu Pro Asp Asp Glu Glu Tyr Gln
                215                 220                 225
Glu Phe Glu Glu Met Leu Glu His Ala Glu Ser Ala Gln Asp Phe
                230                 235                 240
Ala Ser Arg Ala Lys Leu Ala Val Gln Lys Leu Val Gln Lys Val
                245                 250                 255
Gly Phe Phe Gly Ile Leu Ala Cys Ala Ser Ile Pro Asn Pro Leu
                260                 265                 270
Phe Asp Leu Ala Gly Ile Thr Cys Gly His Phe Leu Val Pro Phe
                275                 280                 285
Trp Thr Phe Phe Gly Ala Thr Leu Ile Gly Lys Ala Ile Ile Lys
                290                 295                 300
Met His Ile Gln Lys Ile Phe Val Ile Ile Thr Phe Ser Lys His
                305                 310                 315
Ile Val Glu Gln Met Val Ala Phe Ile Gly Ala Val Pro Gly Ile
                320                 325                 330
Gly Pro Ser Leu Gln Lys Pro Phe Gln Glu Tyr Leu Glu Ala Gln
                335                 340                 345
Arg Gln Lys Leu His His Lys Ser Glu Met Gly Thr Pro Gln Gly
                350                 355                 360
Glu Asn Trp Leu Ser Trp Met Phe Glu Lys Leu Val Val Val Met
                365                 370                 375
Val Cys Tyr Phe Ile Leu Ser Ile Ile Asn Ser Met Ala Gln Ser
                380                 385                 390
Tyr Ala Lys Arg Ile Gln Gln Arg Leu Asn Ser Glu Glu Lys Thr
                395                 400                 405
Lys
```

<210> 18
<211> 290
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1562471CD1

<400> 18

```
Met Pro Leu Leu Thr Leu Tyr Leu Leu Leu Phe Trp Leu Ser Gly
  1               5                  10                  15
Tyr Ser Ile Ala Thr Gln Ile Thr Gly Pro Thr Thr Val Asn Gly
                 20                  25                  30
Leu Glu Arg Gly Ser Leu Thr Val Gln Cys Val Tyr Arg Ser Gly
                 35                  40                  45
Trp Glu Thr Tyr Leu Lys Trp Trp Cys Arg Gly Ala Ile Trp Arg
                 50                  55                  60
Asp Cys Lys Ile Leu Val Lys Thr Ser Gly Ser Glu Gln Glu Val
                 65                  70                  75
Lys Arg Asp Arg Val Ser Ile Lys Asp Asn Gln Lys Asn Arg Thr
                 80                  85                  90
Phe Thr Val Thr Met Glu Asp Leu Met Lys Thr Asp Ala Asp Thr
                 95                 100                 105
Tyr Trp Cys Gly Ile Glu Lys Thr Gly Asn Asp Leu Gly Val Thr
```

```
                110                 115                 120
Val Gln Val Thr Ile Asp Pro Ala Pro Val Thr Gln Glu Glu Thr
                125                 130                 135
Ser Ser Ser Pro Thr Leu Thr Gly His His Leu Asp Asn Arg His
                140                 145                 150
Lys Leu Leu Lys Leu Ser Val Leu Leu Pro Leu Ile Phe Thr Ile
                155                 160                 165
Leu Leu Leu Leu Leu Val Ala Ala Ser Leu Leu Ala Trp Arg Met
                170                 175                 180
Met Lys Tyr Gln Gln Lys Ala Ala Gly Met Ser Pro Glu Gln Val
                185                 190                 195
Leu Gln Pro Leu Glu Gly Asp Leu Cys Tyr Ala Asp Leu Thr Leu
                200                 205                 210
Gln Leu Ala Gly Thr Ser Pro Arg Lys Ala Thr Thr Lys Leu Ser
                215                 220                 225
Ser Ala Gln Val Asp Gln Val Glu Val Glu Tyr Val Thr Met Ala
                230                 235                 240
Ser Leu Pro Lys Glu Asp Ile Ser Tyr Ala Ser Leu Thr Leu Gly
                245                 250                 255
Ala Glu Asp Gln Glu Pro Thr Tyr Cys Asn Met Gly His Leu Ser
                260                 265                 270
Ser His Leu Pro Gly Arg Gly Pro Glu Glu Pro Thr Glu Tyr Ser
                275                 280                 285
Thr Ile Ser Arg Pro
                290
<210> 19
<211> 390
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1618158CD1

<400> 19
Met Phe Ser Thr Asn Tyr Ser His Met Glu Asn Tyr Arg Lys Arg
  1                 5                  10                  15
Glu Asp Leu Val Tyr Gln Ser Thr Val Arg Leu Pro Glu Val Arg
                 20                  25                  30
Ile Ser Asp Asn Gly Pro Tyr Glu Cys His Val Gly Ile Tyr Asp
                 35                  40                  45
Arg Ala Thr Arg Glu Lys Val Val Leu Ala Ser Gly Asn Ile Phe
                 50                  55                  60
Leu Asn Val Met Ala Pro Pro Thr Ser Ile Glu Val Val Ala Ala
                 65                  70                  75
Asp Thr Pro Ala Pro Phe Ser Arg Tyr Gln Ala Gln Asn Phe Thr
                 80                  85                  90
Leu Val Cys Ile Val Ser Gly Gly Lys Pro Ala Pro Met Val Tyr
                 95                 100                 105
Phe Lys Arg Asp Gly Glu Pro Ile Asp Ala Val Pro Leu Ser Glu
                110                 115                 120
Pro Pro Ala Ala Ser Ser Gly Pro Leu Gln Asp Ser Arg Pro Phe
                125                 130                 135
Arg Ser Leu Leu His Arg Asp Leu Asp Asp Thr Lys Met Gln Lys
                140                 145                 150
Ser Leu Ser Leu Leu Asp Ala Glu Asn Arg Gly Gly Arg Pro Tyr
```

```
                155                 160                 165
Thr Glu Arg Pro Ser Arg Gly Leu Thr Pro Asp Pro Asn Ile Leu
                170                 175                 180
Leu Gln Pro Thr Thr Glu Asn Ile Pro Glu Thr Val Val Ser Arg
                185                 190                 195
Glu Phe Pro Arg Trp Val His Ser Ala Glu Pro Thr Tyr Phe Leu
                200                 205                 210
Arg His Ser Arg Thr Pro Ser Ser Asp Gly Thr Val Glu Val Arg
                215                 220                 225
Ala Leu Leu Thr Trp Thr Leu Asn Pro Gln Ile Asp Asn Glu Ala
                230                 235                 240
Leu Phe Ser Cys Glu Val Lys His Pro Ala Leu Ser Met Pro Met
                245                 250                 255
Gln Ala Glu Val Thr Leu Val Ala Pro Lys Gly Pro Lys Ile Val
                260                 265                 270
Met Thr Pro Ser Arg Ala Arg Val Gly Asp Thr Val Arg Ile Leu
                275                 280                 285
Val His Gly Phe Gln Asn Glu Val Phe Pro Glu Pro Met Phe Thr
                290                 295                 300
Trp Thr Arg Val Gly Ser Arg Leu Leu Asp Gly Ser Ala Glu Phe
                305                 310                 315
Asp Gly Lys Glu Leu Val Leu Glu Arg Val Pro Ala Glu Leu Asn
                320                 325                 330
Gly Ser Met Tyr Arg Cys Thr Ala Gln Asn Pro Leu Gly Ser Thr
                335                 340                 345
Asp Thr His Thr Arg Leu Ile Val Phe Glu Asn Pro Asn Ile Pro
                350                 355                 360
Arg Gly Thr Glu Asp Ser Asn Gly Ser Ile Gly Pro Thr Gly Ala
                365                 370                 375
Arg Leu Thr Leu Val Leu Ala Leu Thr Val Ile Leu Glu Leu Thr
                380                 385                 390

<210> 20
<211> 427
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1656935CD1

<400> 20
Met Asn Val Asn Ser Met Asp Met Thr Gly Gly Leu Ser Val Lys
  1               5                  10                  15
Asp Pro Ser Gln Ser Gln Ser Arg Leu Pro Gln Trp Thr His Pro
                 20                  25                  30
Asn Ser Met Asp Asn Leu Pro Ser Ala Ala Ser Pro Leu Glu Gln
                 35                  40                  45
Asn Pro Ser Lys His Gly Ala Ile Pro Gly Gly Leu Ser Ile Gly
                 50                  55                  60
Pro Pro Gly Lys Ser Ser Ile Asp Asp Ser Tyr Gly Arg Tyr Asp
                 65                  70                  75
Leu Ile Gln Asn Ser Glu Ser Pro Ala Ser Pro Pro Val Ala Val
                 80                  85                  90
Pro His Ser Trp Ser Arg Ala Lys Ser Asp Ser Asp Lys Ile Ser
                 95                 100                 105
```

```
Asn Gly Ser Ser Ile Asn Trp Pro Pro Glu Phe His Pro Gly Val
                110                 115                 120
Pro Trp Lys Gly Leu Gln Asn Ile Asp Pro Glu Asn Asp Pro Asp
                125                 130                 135
Val Thr Pro Gly Ser Val Pro Thr Gly Pro Thr Ile Asn Thr Thr
                140                 145                 150
Ile Gln Asp Val Asn Arg Tyr Leu Leu Lys Ser Gly Gly Ser Ser
                155                 160                 165
Pro Pro Ser Ser Gln Asn Ala Thr Leu Pro Ser Ser Ser Ala Trp
                170                 175                 180
Pro Leu Ser Ala Ser Gly Tyr Ser Ser Ser Phe Ser Ser Ile Ala
                185                 190                 195
Ser Ala Pro Ser Val Ala Gly Lys Leu Ser Asp Ile Lys Ser Thr
                200                 205                 210
Trp Ser Ser Gly Pro Thr Ser His Thr Gln Ala Ser Leu Ser His
                215                 220                 225
Glu Leu Trp Lys Val Pro Arg Asn Ser Thr Ala Pro Thr Arg Pro
                230                 235                 240
Pro Pro Gly Leu Thr Asn Pro Lys Pro Ser Ser Thr Trp Gly Ala
                245                 250                 255
Ser Pro Leu Gly Trp Thr Ser Ser Tyr Ser Ser Gly Ser Ala Trp
                260                 265                 270
Ser Thr Asp Thr Ser Gly Arg Thr Ser Ser Trp Leu Val Leu Arg
                275                 280                 285
Asn Leu Thr Pro Gln Ile Asp Gly Ser Lys Leu Arg Thr Leu Cys
                290                 295                 300
Leu Gln His Gly Pro Leu Ile Thr Phe His Leu Asn Leu Thr Gln
                305                 310                 315
Gly Asn Ala Val Val Arg Tyr Ser Ser Lys Glu Glu Gly Leu Pro
                320                 325                 330
Lys Ala Gln Glu Val Leu Cys Thr Ile Val Arg Pro Trp Glu Thr
                335                 340                 345
Leu Ser His Ser Leu Gly Pro Ser Phe Arg Leu Val Gly Thr Lys
                350                 355                 360
Glu Val Gly Ile Arg Val Ser Phe Lys Pro Pro Glu Gly Pro Gly
                365                 370                 375
Arg Ile Gly Gln Ser Thr Ile Phe Gln Gly Leu Ala Gln Phe His
                380                 385                 390
Asp Gln Arg Gly Val Ser Lys Leu Thr Gly Arg Gly Gly Ile His
                395                 400                 405
Arg Pro Arg Gly Arg Gly Lys Ala Ser His Gln Leu Ala His Met
                410                 415                 420
Arg His Cys Glu Leu Thr Phe
                425
<210> 21
<211> 459
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1859305CD1

<400> 21
Met Glu Lys Thr Cys Ile Asp Ala Leu Pro Leu Thr Met Asn Ser
  1               5                  10                  15
```

```
Ser Glu Lys Gln Glu Thr Val Cys Ile Phe Gly Thr Gly Asp Phe
                  20                  25                  30
Gly Arg Ser Leu Gly Leu Lys Met Leu Gln Cys Gly Tyr Ser Val
                  35                  40                  45
Val Phe Gly Ser Arg Asn Pro Gln Lys Thr Thr Leu Leu Pro Ser
                  50                  55                  60
Gly Ala Glu Val Leu Ser Tyr Ser Glu Ala Ala Lys Lys Ser Asp
                  65                  70                  75
Ile Ile Ile Ile Ala Ile His Arg Glu His Tyr Asp Phe Leu Thr
                  80                  85                  90
Glu Leu Thr Glu Val Leu Asn Gly Lys Ile Leu Val Asp Ile Ser
                  95                 100                 105
Asn Asn Leu Lys Ile Asn Gln Tyr Pro Glu Ser Asn Ala Glu Tyr
                 110                 115                 120
Leu Ala His Leu Val Pro Gly Ala His Val Val Lys Ala Phe Asn
                 125                 130                 135
Thr Ile Ser Ala Trp Ala Leu Gln Ser Gly Ala Leu Asp Ala Ser
                 140                 145                 150
Arg Gln Val Phe Val Cys Gly Asn Asp Ser Lys Ala Lys Gln Arg
                 155                 160                 165
Val Met Asp Ile Val Arg Asn Leu Gly Leu Thr Pro Met Asp Gln
                 170                 175                 180
Gly Ser Leu Met Ala Ala Lys Glu Ile Glu Lys Tyr Pro Leu Gln
                 185                 190                 195
Leu Phe Pro Met Trp Arg Phe Pro Phe Tyr Leu Ser Ala Val Leu
                 200                 205                 210
Cys Val Phe Leu Phe Phe Tyr Cys Val Ile Arg Asp Val Ile Tyr
                 215                 220                 225
Pro Tyr Val Tyr Glu Lys Lys Asp Asn Thr Phe Arg Met Ala Ile
                 230                 235                 240
Ser Ile Pro Asn Arg Ile Phe Pro Ile Thr Ala Leu Thr Leu Leu
                 245                 250                 255
Ala Leu Val Tyr Leu Pro Gly Val Ile Ala Ala Ile Leu Gln Leu
                 260                 265                 270
Tyr Arg Gly Thr Lys Tyr Arg Arg Phe Pro Asp Trp Leu Asp His
                 275                 280                 285
Trp Met Leu Cys Arg Lys Gln Leu Gly Leu Val Ala Leu Gly Phe
                 290                 295                 300
Ala Phe Leu His Val Leu Tyr Thr Leu Val Ile Pro Ile Arg Tyr
                 305                 310                 315
Tyr Val Arg Trp Arg Leu Gly Asn Leu Thr Val Thr Gln Ala Ile
                 320                 325                 330
Leu Lys Lys Glu Asn Pro Phe Ser Thr Ser Ser Ala Trp Leu Ser
                 335                 340                 345
Asp Ser Tyr Val Ala Leu Gly Ile Leu Gly Phe Phe Leu Phe Val
                 350                 355                 360
Leu Leu Gly Ile Thr Ser Leu Pro Ser Val Ser Asn Ala Val Asn
                 365                 370                 375
Trp Arg Glu Phe Arg Phe Val Gln Ser Lys Leu Gly Tyr Leu Thr
                 380                 385                 390
Leu Ile Leu Cys Thr Ala His Thr Leu Val Tyr Gly Gly Lys Arg
                 395                 400                 405
Phe Leu Ser Pro Ser Asn Leu Arg Trp Tyr Leu Pro Ala Ala Tyr
                 410                 415                 420
Val Leu Gly Leu Ile Ile Pro Cys Thr Val Leu Val Ile Lys Phe
                 425                 430                 435
```

Val Leu Ile Met Pro Cys Val Asp Asn Thr Leu Thr Arg Ile Arg
440 445 450
Gln Gly Trp Glu Arg Asn Ser Lys His
455

<210> 22
<211> 229
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1949083CD1

<400> 22
Met Leu Pro Val Ser Arg Thr Cys Leu Leu Glu Ser Ser Thr Arg
1 5 10 15
Leu Lys Pro His Glu Ala Gln Asn Tyr Arg Lys Lys Ala Leu Trp
20 25 30
Val Ser Trp Phe Ser Ile Ile Val Thr Leu Ala Leu Ala Val Ala
35 40 45
Ala Phe Thr Val Ser Val Met Arg Tyr Ser Ala Ser Ala Phe Gly
50 55 60
Phe Ala Phe Asp Ala Ile Leu Asp Val Leu Ser Ser Ala Ile Val
65 70 75
Leu Trp Arg Tyr Ser Asn Ala Ala Ala Val His Ser Ala His Arg
80 85 90
Glu Tyr Ile Ala Cys Val Ile Leu Gly Val Ile Phe Leu Leu Ser
95 100 105
Ser Ile Cys Ile Val Val Lys Ala Ile His Asp Leu Ser Thr Arg
110 115 120
Leu Leu Pro Glu Val Asp Asp Phe Leu Phe Ser Val Ser Ile Leu
125 130 135
Ser Gly Ile Leu Cys Ser Ile Leu Ala Val Leu Lys Phe Met Leu
140 145 150
Gly Lys Val Leu Thr Ser Arg Ala Leu Ile Thr Asp Gly Phe Asn
155 160 165
Ser Leu Val Gly Gly Val Met Gly Phe Ser Ile Leu Leu Ser Ala
170 175 180
Glu Val Phe Lys His Asp Ser Ala Val Trp Tyr Leu Asp Gly Ser
185 190 195
Ile Gly Val Leu Ile Gly Leu Thr Ile Phe Ala Tyr Gly Val Lys
200 205 210
Leu Leu Ile Asp Met Val Pro Lys Val Arg Gln Thr Arg His Tyr
215 220 225
Glu Met Phe Glu

<210> 23
<211> 311
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1996357CD1

<400> 23

```
Met Ala Val Asp Ile Gln Pro Ala Cys Leu Gly Leu Tyr Cys Gly
 1               5                  10                  15
Lys Thr Leu Leu Phe Lys Asn Gly Ser Thr Glu Ile Tyr Gly Glu
            20                  25                  30
Cys Gly Val Cys Pro Arg Gly Gln Arg Thr Asn Ala Gln Lys Tyr
        35                  40                  45
Cys Gln Pro Cys Thr Glu Ser Pro Glu Leu Tyr Asp Trp Leu Tyr
    50                  55                  60
Leu Gly Phe Met Ala Met Leu Pro Leu Val Leu His Trp Phe Phe
65                  70                  75
Ile Glu Trp Tyr Ser Gly Lys Lys Ser Ser Ser Ala Leu Phe Gln
                80                  85                  90
His Ile Thr Ala Leu Phe Glu Cys Ser Met Ala Ala Ile Ile Thr
            95                  100                 105
Leu Leu Val Ser Asp Pro Val Gly Val Leu Tyr Ile Arg Ser Cys
        110                 115                 120
Arg Val Leu Met Leu Ser Asp Trp Tyr Thr Met Leu Tyr Asn Pro
    125                 130                 135
Ser Pro Asp Tyr Val Thr Thr Val His Cys Thr His Glu Ala Val
140                 145                 150
Tyr Pro Leu Tyr Thr Ile Val Phe Ile Tyr Tyr Ala Phe Cys Leu
                155                 160                 165
Val Leu Met Met Leu Leu Arg Pro Leu Leu Val Lys Lys Ile Ala
            170                 175                 180
Cys Gly Leu Gly Lys Ser Asp Arg Phe Lys Ser Ile Tyr Ala Ala
        185                 190                 195
Leu Tyr Phe Phe Pro Ile Leu Thr Val Leu Gln Ala Val Gly Gly
    200                 205                 210
Gly Leu Leu Tyr Tyr Ala Phe Pro Tyr Ile Ile Leu Val Leu Ser
215                 220                 225
Leu Val Thr Leu Ala Val Tyr Met Ser Ala Ser Glu Ile Glu Asn
                230                 235                 240
Cys Tyr Asp Leu Leu Val Arg Lys Lys Arg Leu Ile Val Leu Phe
            245                 250                 255
Ser His Trp Leu Leu His Ala Tyr Gly Ile Ile Ser Ile Ser Arg
        260                 265                 270
Val Asp Lys Leu Glu Gln Asp Leu Pro Leu Leu Ala Leu Val Pro
    275                 280                 285
Thr Pro Ala Leu Phe Tyr Leu Phe Thr Ala Lys Phe Thr Glu Pro
290                 295                 300
Ser Arg Ile Leu Ser Glu Gly Ala Asn Gly His
                305                 310
<210> 24
<211> 92
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2061330CD1

<400> 24
Met Arg Phe Ile Phe Leu Lys Phe Trp Thr Tyr Thr Val Arg Ala
 1               5                  10                  15
Ser Thr Asp Leu Thr Gln Thr Gly Asp Cys Ser Gln Cys Thr His
            20                  25                  30
```

```
Gln Val Thr Glu Val Gly Gln Gln Ile Lys Thr Ile Phe Leu Phe
                35                  40                  45
Tyr Ser Tyr Tyr Glu Cys Met Glu Thr Ile Lys Glu Thr Cys Leu
                50                  55                  60
Tyr Asn Ala Thr Gln Tyr Lys Val Cys Ser Pro Arg Asn Asp Arg
                65                  70                  75
Pro Asp Val Cys Tyr Asn Pro Ser Glu Pro Pro Ala Pro Pro Phe
                80                  85                  90
Leu Lys
```

<210> 25
<211> 258
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2346947CD1

<400> 25

```
Met Ala Glu Ser Pro Gly Cys Cys Ser Val Trp Ala Arg Cys Leu
  1               5                  10                  15
His Cys Leu Tyr Ser Cys His Trp Arg Lys Cys Pro Arg Glu Arg
                20                  25                  30
Met Gln Thr Ser Lys Cys Asp Cys Ile Trp Phe Gly Leu Leu Phe
                35                  40                  45
Leu Thr Phe Leu Leu Ser Leu Ser Trp Leu Tyr Ile Gly Leu Val
                50                  55                  60
Leu Leu Asn Asp Leu His Asn Phe Asn Glu Phe Leu Phe Arg Arg
                65                  70                  75
Trp Gly His Trp Met Asp Trp Ser Leu Ala Phe Leu Leu Val Ile
                80                  85                  90
Ser Leu Leu Val Thr Tyr Ala Ser Leu Leu Leu Val Leu Ala Leu
                95                 100                 105
Leu Leu Arg Leu Cys Arg Gln Pro Leu His Leu His Ser Leu His
               110                 115                 120
Lys Val Leu Leu Leu Leu Ile Met Leu Leu Val Ala Ala Gly Leu
               125                 130                 135
Val Gly Leu Asp Ile Gln Trp Gln Gln Glu Trp His Ser Leu Arg
               140                 145                 150
Val Ser Leu Gln Ala Thr Ala Pro Phe Leu His Ile Gly Ala Ala
               155                 160                 165
Ala Gly Ile Ala Leu Leu Ala Trp Pro Val Ala Asp Thr Phe Tyr
               170                 175                 180
Arg Ile His Arg Arg Gly Pro Lys Ile Leu Leu Leu Leu Leu Phe
               185                 190                 195
Phe Gly Val Val Leu Val Ile Tyr Leu Ala Pro Leu Cys Ile Ser
               200                 205                 210
Ser Pro Cys Ile Met Glu Pro Arg Asp Leu Pro Pro Lys Pro Gly
               215                 220                 225
Leu Val Gly His Arg Gly Ala Pro Met Leu Ala Pro Glu Asn Thr
               230                 235                 240
Leu Met Ser Leu Arg Lys Thr Ala Glu Cys Gly Leu Leu Cys Leu
               245                 250                 255
Arg Leu Met
```

<210> 26
<211> 226
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2795577CD1

<400> 26
Met Lys Met Val Ala Pro Trp Thr Arg Phe Tyr Ser Asn Ser Cys
1 5 10 15
Cys Leu Cys Cys His Val Arg Thr Gly Thr Ile Leu Leu Gly Val
20 25 30
Trp Tyr Leu Ile Ile Asn Ala Val Val Leu Leu Ile Leu Leu Ser
35 40 45
Ala Leu Ala Asp Pro Asp Gln Tyr Asn Phe Ser Ser Ser Glu Leu
50 55 60
Gly Gly Asp Phe Glu Phe Met Asp Asp Ala Asn Met Cys Ile Ala
65 70 75
Ile Ala Ile Ser Leu Leu Met Ile Leu Ile Cys Ala Met Ala Thr
80 85 90
Tyr Gly Ala Tyr Lys Gln Arg Ala Ala Trp Ile Ile Pro Phe Phe
95 100 105
Cys Tyr Gln Ile Phe Asp Phe Ala Leu Asn Met Leu Val Ala Ile
110 115 120
Thr Val Leu Ile Tyr Pro Asn Ser Ile Gln Glu Tyr Ile Arg Gln
125 130 135
Leu Pro Pro Asn Phe Pro Tyr Arg Asp Asp Val Met Ser Val Asn
140 145 150
Pro Thr Cys Leu Val Leu Ile Ile Leu Leu Phe Ile Ser Ile Ile
155 160 165
Leu Thr Phe Lys Gly Tyr Leu Ile Ser Cys Val Trp Asn Cys Tyr
170 175 180
Arg Tyr Ile Asn Gly Arg Asn Ser Ser Asp Val Leu Val Tyr Val
185 190 195
Thr Ser Asn Asp Thr Thr Val Leu Leu Pro Pro Tyr Asp Asp Ala
200 205 210
Thr Val Asn Gly Ala Ala Lys Glu Pro Pro Pro Pro Tyr Val Ser
215 220 225
Ala

<210> 27
<211> 136
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3255825CD1

<400> 27
Met Ile Ser Ile Thr Glu Trp Gln Lys Ile Gly Val Gly Ile Thr
1 5 10 15
Gly Phe Gly Ile Phe Phe Ile Leu Phe Gly Thr Leu Leu Tyr Phe
20 25 30

```
Asp Ser Val Leu Leu Ala Phe Gly Asn Leu Leu Phe Leu Thr Gly
                  35                  40                  45
Leu Ser Leu Ile Ile Gly Leu Arg Lys Thr Phe Trp Phe Phe Phe
                  50                  55                  60
Gln Arg His Lys Leu Lys Gly Thr Ser Phe Leu Leu Gly Gly Val
                  65                  70                  75
Val Ile Val Leu Leu Arg Trp Pro Leu Leu Gly Met Phe Leu Glu
                  80                  85                  90
Thr Tyr Gly Phe Phe Ser Leu Phe Lys Gly Phe Phe Pro Val Ala
                  95                 100                 105
Phe Gly Ser Trp Ala Met Ser Ala Thr Ser Pro Ser Trp Val Arg
                 110                 115                 120
Cys Ser Gly Asp Phe Lys Ala Leu Ala Arg Trp Ser Glu Lys Gln
                 125                 130                 135
Arg
```

<210> 28
<211> 458
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3393430CD1

<400> 28

```
Met Ala Trp Ala Ser Arg Leu Gly Leu Leu Leu Ala Leu Leu Leu
  1               5                  10                  15
Pro Val Val Gly Ala Ser Thr Pro Gly Thr Val Val Arg Leu Asn
                  20                  25                  30
Lys Ala Ala Leu Ser Tyr Val Ser Glu Ile Gly Lys Ala Pro Leu
                  35                  40                  45
Gln Arg Ala Leu Gln Val Thr Val Pro His Phe Leu Asp Trp Ser
                  50                  55                  60
Gly Glu Ala Leu Gln Pro Thr Arg Ile Arg Ile Leu Asn Val His
                  65                  70                  75
Val Pro Arg Leu His Leu Lys Phe Ile Ala Gly Phe Gly Val Arg
                  80                  85                  90
Leu Leu Ala Ala Ala Asn Phe Thr Phe Lys Val Phe Arg Ala Pro
                  95                 100                 105
Glu Pro Leu Glu Leu Thr Leu Pro Val Glu Leu Leu Ala Asp Thr
                 110                 115                 120
Arg Val Thr Gln Ser Ser Ile Arg Thr Pro Val Val Ser Ile Ser
                 125                 130                 135
Ala Cys Ser Leu Phe Ser Gly His Ala Asn Glu Phe Asp Gly Ser
                 140                 145                 150
Asn Ser Thr Ser His Ala Leu Leu Val Leu Val Gln Lys His Ile
                 155                 160                 165
Lys Ala Val Leu Ser Asn Lys Leu Cys Leu Ser Ile Ser Asn Leu
                 170                 175                 180
Val Gln Gly Val Asn Val His Leu Gly Thr Leu Ile Gly Leu Asn
                 185                 190                 195
Pro Val Gly Pro Glu Ser Gln Ile Arg Tyr Ser Met Val Ser Val
                 200                 205                 210
Pro Thr Val Thr Ser Asp Tyr Ile Ser Leu Glu Val Asn Ala Val
                 215                 220                 225
```

Leu Phe Leu Leu Gly Lys Pro Ile Ile Leu Pro Thr Asp Ala Thr
230 235 240
Pro Phe Val Leu Pro Arg His Val Gly Thr Glu Gly Ser Met Ala
245 250 255
Thr Val Gly Leu Ser Gln Gln Leu Phe Asp Ser Ala Leu Leu Leu
260 265 270
Leu Gln Lys Ala Gly Ala Leu Asn Leu Asp Ile Thr Gly Gln Leu
275 280 285
Arg Ser Asp Asp Asn Leu Leu Asn Thr Ser Ala Leu Gly Arg Leu
290 295 300
Ile Pro Glu Val Ala Arg Gln Phe Pro Glu Pro Met Pro Val Val
305 310 315
Leu Lys Val Arg Leu Gly Ala Thr Pro Val Ala Met Leu His Thr
320 325 330
Asn Asn Ala Thr Leu Arg Leu Gln Pro Phe Val Glu Val Leu Ala
335 340 345
Thr Ala Ser Asn Ser Ala Phe Gln Ser Leu Phe Ser Leu Asp Val
350 355 360
Val Val Asn Leu Arg Leu Gln Leu Ser Val Ser Lys Val Lys Leu
365 370 375
Gln Gly Thr Thr Ser Val Leu Gly Asp Val Gln Leu Thr Val Ala
380 385 390
Ser Ser Asn Val Gly Phe Ile Asp Thr Asp Gln Val Arg Thr Leu
395 400 405
Met Gly Thr Val Phe Glu Lys Pro Leu Leu Asp His Leu Asn Ala
410 415 420
Leu Leu Ala Met Gly Ile Ala Leu Pro Gly Val Val Asn Leu His
425 430 435
Tyr Val Ala Pro Glu Ile Phe Val Tyr Glu Gly Tyr Val Val Ile
440 445 450
Ser Ser Gly Leu Phe Tyr Gln Ser
455

<210> 29
<211> 368
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3490990CD1

<400> 29
Met Phe Gly Gln Asn Leu Glu Val Gln Leu Ser Ser Ala Arg Thr
1 5 10 15
Glu Asn Thr Thr Val Val Trp Lys Ser Phe His Asp Ser Ile Thr
20 25 30
Leu Ile Val Leu Ser Ser Glu Val Gly Ile Ser Glu Leu Arg Leu
35 40 45
Glu Arg Leu Leu Gln Met Val Phe Gly Ala Met Val Leu Leu Val
50 55 60
Gly Leu Glu Glu Leu Thr Asn Ile Arg Asn Val Glu Arg Leu Lys
65 70 75
Lys Asp Leu Arg Ala Ser Tyr Cys Leu Ile Asp Ser Phe Leu Gly
80 85 90
Asp Ser Glu Leu Ile Gly Asp Leu Thr Gln Cys Val Asp Cys Val
95 100 105

```
Ile Pro Pro Glu Gly Ser Leu Leu Gln Glu Ala Leu Ser Gly Phe
                110                 115                 120
Ala Glu Ala Ala Gly Thr Thr Phe Val Ser Leu Val Val Ser Gly
                125                 130                 135
Arg Val Val Ala Ala Thr Glu Gly Trp Trp Arg Leu Gly Thr Pro
                140                 145                 150
Glu Ala Val Leu Leu Pro Trp Leu Val Gly Ser Leu Pro Pro Gln
                155                 160                 165
Thr Ala Arg Asp Tyr Pro Val Tyr Leu Pro His Gly Ser Pro Thr
                170                 175                 180
Val Pro His Arg Leu Leu Thr Leu Thr Leu Leu Pro Ser Leu Glu
                185                 190                 195
Leu Cys Leu Leu Cys Gly Pro Ser Pro Pro Leu Ser Gln Leu Tyr
                200                 205                 210
Pro Gln Leu Leu Glu Arg Trp Trp Gln Pro Leu Leu Asp Pro Leu
                215                 220                 225
Arg Ala Cys Leu Pro Leu Gly Pro Arg Ala Leu Pro Ser Gly Phe
                230                 235                 240
Pro Leu His Thr Asp Ile Leu Gly Leu Leu Leu Leu His Leu Glu
                245                 250                 255
Leu Lys Arg Cys Leu Phe Thr Val Glu Pro Leu Gly Asp Lys Glu
                260                 265                 270
Pro Ser Pro Glu Gln Arg Arg Arg Leu Leu Arg Asn Phe Tyr Thr
                275                 280                 285
Leu Val Thr Ser Thr His Phe Pro Pro Glu Pro Gly Pro Pro Glu
                290                 295                 300
Lys Thr Glu Asp Glu Val Tyr Gln Ala Gln Leu Pro Arg Ala Cys
                305                 310                 315
Tyr Leu Val Leu Gly Thr Glu Glu Pro Gly Thr Gly Val Arg Leu
                320                 325                 330
Val Ala Leu Gln Leu Gly Leu Arg Arg Leu Leu Leu Leu Leu Ser
                335                 340                 345
Pro Gln Ser Pro Thr His Gly Leu Arg Ser Leu Ala Thr His Thr
                350                 355                 360
Leu His Ala Leu Thr Pro Leu Leu
                365
<210> 30
<211> 91
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3635154CD1

<400> 30
Met Tyr Gly Lys Ile Ile Phe Val Leu Leu Leu Ser Glu Ile Val
  1               5                  10                  15
Ser Ile Ser Ala Ser Ser Thr Thr Gly Val Ala Met His Thr Ser
                 20                  25                  30
Thr Ser Ser Ser Val Thr Lys Ser Tyr Ile Ser Ser Gln Thr Asn
                 35                  40                  45
Gly Glu Thr Gly Gln Leu Val His Arg Phe Thr Val Pro Ala Pro
                 50                  55                  60
Val Val Ile Ile Leu Ile Ile Leu Cys Val Met Ala Gly Ile Ile
                 65                  70                  75
```

```
Gly Thr Ile Leu Leu Phe Ser Tyr Ser Phe Arg Arg Leu Ile Lys
                 80                  85                  90
Gly
```

<210> 31
<211> 295
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4374347CD1

<400> 31

```
Met Gly Pro Pro Ser Ala Cys Pro His Arg Glu Cys Ile Pro Trp
  1               5                  10                  15
Gln Gly Leu Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn Ala
                 20                  25                  30
Pro Thr Thr Ala Trp Leu Phe Ile Ala Ser Ala Pro Phe Glu Val
                 35                  40                  45
Ala Glu Gly Glu Asn Val His Leu Ser Val Val Tyr Leu Pro Glu
                 50                  55                  60
Asn Leu Tyr Ser Tyr Gly Trp Tyr Lys Gly Lys Thr Val Glu Pro
                 65                  70                  75
Asn Gln Leu Ile Ala Ala Tyr Val Ile Asp Thr His Val Arg Thr
                 80                  85                  90
Pro Gly Pro Ala Tyr Ser Gly Arg Glu Thr Ile Ser Pro Ser Gly
                 95                 100                 105
Asp Leu His Phe Gln Asn Val Thr Leu Glu Asp Thr Gly Tyr Tyr
                110                 115                 120
Asn Leu Gln Val Thr Tyr Arg Asn Ser Gln Ile Glu Gln Ala Ser
                125                 130                 135
His His Leu Arg Val Tyr Glu Ser Val Ala Gln Pro Ser Ile Gln
                140                 145                 150
Ala Ser Ser Thr Thr Val Thr Glu Lys Gly Ser Val Val Leu Thr
                155                 160                 165
Cys His Thr Asn Asn Thr Gly Thr Ser Phe Gln Trp Ile Phe Asn
                170                 175                 180
Asn Gln Arg Leu Gln Val Thr Lys Arg Met Lys Leu Ser Trp Phe
                185                 190                 195
Asn His Val Leu Thr Ile Asp Pro Ile Arg Gln Glu Asp Ala Gly
                200                 205                 210
Glu Tyr Gln Cys Glu Val Ser Asn Pro Val Ser Ser Asn Arg Ser
                215                 220                 225
Asp Pro Leu Lys Leu Thr Val Lys Tyr Asp Asn Thr Leu Gly Ile
                230                 235                 240
Leu Ile Gly Val Leu Val Gly Ser Leu Leu Val Ala Ala Leu Val
                245                 250                 255
Cys Phe Leu Leu Leu Arg Lys Thr Gly Arg Ala Ser Asp Gln Ser
                260                 265                 270
Asp Phe Arg Glu Gln Gln Pro Pro Ala Ser Thr Pro Gly His Gly
                275                 280                 285
Pro Ser Asp Ser Ser Asp Ser Ser Ile Ser
                290                 295
```

<210> 32
<211> 724

<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4596747CD1

<400> 32

```
Met Phe Asp Thr Thr Pro His Ser Gly Arg Ser Thr Pro Ser Ser
  1               5                  10                  15
Ser Pro Ser Leu Arg Lys Arg Leu Gln Leu Leu Pro Pro Ser Arg
                20                  25                  30
Pro Pro Pro Glu Pro Glu Pro Gly Thr Met Val Glu Lys Gly Ser
                35                  40                  45
Asp Ser Ser Ser Glu Lys Gly Gly Val Pro Gly Thr Pro Ser Thr
                50                  55                  60
Gln Ser Leu Gly Ser Arg Asn Phe Ile Arg Asn Ser Lys Lys Met
                65                  70                  75
Gln Ser Trp Tyr Ser Met Leu Ser Pro Thr Tyr Lys Gln Arg Asn
                80                  85                  90
Glu Asp Phe Arg Lys Leu Phe Ser Lys Leu Pro Glu Ala Glu Arg
                95                 100                 105
Leu Ile Val Asp Tyr Ser Cys Ala Leu Gln Arg Glu Ile Leu Leu
               110                 115                 120
Gln Gly Arg Leu Tyr Leu Ser Glu Asn Trp Ile Cys Phe Tyr Ser
               125                 130                 135
Asn Ile Phe Arg Trp Glu Thr Thr Ile Ser Ile Gln Leu Lys Glu
               140                 145                 150
Val Thr Cys Leu Lys Lys Glu Lys Thr Ala Lys Leu Ile Pro Asn
               155                 160                 165
Ala Ile Gln Ile Cys Thr Glu Ser Glu Lys His Phe Phe Thr Ser
               170                 175                 180
Phe Gly Ala Arg Asp Arg Cys Phe Leu Leu Ile Phe Arg Leu Trp
               185                 190                 195
Gln Asn Ala Leu Leu Glu Lys Thr Leu Ser Pro Arg Glu Leu Trp
               200                 205                 210
His Leu Val His Gln Cys Tyr Gly Ser Glu Leu Gly Leu Thr Ser
               215                 220                 225
Glu Asp Glu Asp Tyr Val Ser Pro Leu Gln Leu Asn Gly Leu Gly
               230                 235                 240
Thr Pro Lys Glu Val Gly Asp Val Ile Ala Leu Ser Asp Ile Thr
               245                 250                 255
Ser Ser Gly Ala Ala Asp Arg Ser Gln Glu Pro Ser Pro Val Gly
               260                 265                 270
Ser Arg Arg Gly His Val Thr Pro Asn Leu Ser Arg Ala Ser Ser
               275                 280                 285
Asp Ala Asp His Gly Ala Glu Glu Asp Lys Glu Glu Gln Val Asp
               290                 295                 300
Ser Gln Pro Asp Ala Ser Ser Ser Gln Thr Val Thr Pro Val Ala
               305                 310                 315
Glu Pro Pro Ser Thr Glu Pro Thr Gln Pro Asp Gly Pro Thr Thr
               320                 325                 330
Leu Gly Pro Leu Asp Leu Leu Pro Ser Glu Glu Leu Leu Thr Asp
               335                 340                 345
Thr Ser Asn Ser Ser Ser Ser Thr Gly Glu Glu Ala Asp Leu Ala
               350                 355                 360
```

```
Ala Leu Leu Pro Asp Leu Ser Gly Arg Leu Leu Ile Asn Ser Val
                365                 370                 375
Phe His Val Gly Ala Glu Arg Leu Gln Gln Met Leu Phe Ser Asp
                380                 385                 390
Ser Pro Phe Leu Gln Gly Phe Leu Gln Gln Cys Lys Phe Thr Asp
                395                 400                 405
Val Thr Leu Ser Pro Trp Ser Gly Asp Ser Lys Cys His Gln Arg
                410                 415                 420
Arg Val Leu Thr Tyr Thr Ile Pro Ile Ser Asn Pro Leu Gly Pro
                425                 430                 435
Lys Ser Ala Ser Val Val Glu Thr Gln Thr Leu Phe Arg Arg Gly
                440                 445                 450
Pro Gln Ala Gly Gly Cys Val Val Asp Ser Glu Val Leu Thr Gln
                455                 460                 465
Gly Ile Pro Tyr Gln Asp Tyr Phe Tyr Thr Ala His Arg Tyr Cys
                470                 475                 480
Ile Leu Gly Leu Ala Arg Asn Lys Ala Arg Leu Arg Val Ser Ser
                485                 490                 495
Glu Ile Arg Tyr Arg Lys Gln Pro Trp Ser Leu Val Lys Ser Leu
                500                 505                 510
Ile Glu Lys Asn Ser Trp Ser Gly Ile Glu Asp Tyr Phe His His
                515                 520                 525
Leu Glu Arg Glu Leu Ala Lys Ala Glu Lys Leu Ser Leu Glu Glu
                530                 535                 540
Gly Gly Lys Asp Ala Arg Gly Leu Leu Ser Gly Leu Arg Arg Arg
                545                 550                 555
Lys Arg Pro Leu Ser Trp Arg Ala His Gly Asp Gly Pro Gln His
                560                 565                 570
Pro Asp Pro Asp Pro Cys Ala Arg Ala Gly Ile His Thr Ser Gly
                575                 580                 585
Ser Leu Ser Ser Arg Phe Ser Glu Pro Ser Val Asp Gln Gly Pro
                590                 595                 600
Gly Ala Gly Ile Pro Ser Ala Leu Val Leu Ile Ser Ile Val Ile
                605                 610                 615
Cys Val Ser Leu Ile Ile Leu Ile Ala Leu Asn Val Leu Leu Phe
                620                 625                 630
Tyr Arg Leu Trp Ser Leu Glu Arg Thr Ala His Thr Phe Glu Ser
                635                 640                 645
Trp His Ser Leu Ala Leu Ala Lys Gly Lys Phe Pro Gln Thr Ala
                650                 655                 660
Thr Glu Trp Ala Glu Ile Leu Ala Leu Gln Lys Gln Phe His Ser
                665                 670                 675
Val Glu Val His Lys Trp Arg Gln Ile Leu Arg Ala Ser Val Glu
                680                 685                 690
Leu Leu Asp Glu Met Lys Phe Ser Leu Glu Lys Leu His Gln Gly
                695                 700                 705
Ile Thr Val Ser Asp Pro Pro Phe Asp Thr Gln Pro Arg Pro Asp
                710                 715                 720
Asp Ser Phe Ser
```

<210> 33
<211> 331
<212> PRT
<213> Homo sapiens

<220>

<221> misc_feature
<223> Incyte ID No: 5052680CD1

<400> 33

```
Met Arg Pro Ala Leu Ala Val Gly Leu Val Phe Ala Gly Cys Cys
  1               5                  10                  15
Ser Asn Val Ile Phe Leu Glu Leu Leu Ala Arg Lys His Pro Gly
             20                  25                  30
Cys Gly Asn Ile Val Thr Phe Ala Gln Phe Leu Phe Ile Ala Val
             35                  40                  45
Glu Gly Phe Leu Phe Glu Ala Asp Leu Gly Arg Lys Pro Pro Ala
             50                  55                  60
Ile Pro Ile Arg Tyr Tyr Ala Ile Met Val Thr Met Phe Phe Thr
             65                  70                  75
Val Ser Val Val Asn Asn Tyr Ala Leu Asn Leu Asn Ile Ala Met
             80                  85                  90
Pro Leu His Met Ile Phe Arg Ser Gly Ser Leu Ile Ala Asn Met
             95                 100                 105
Ile Leu Gly Ile Ile Ile Leu Lys Lys Arg Tyr Ser Ile Phe Lys
            110                 115                 120
Tyr Thr Ser Ile Ala Leu Val Ser Val Gly Ile Phe Ile Cys Thr
            125                 130                 135
Phe Met Ser Ala Lys Gln Val Thr Ser Gln Ser Ser Leu Ser Glu
            140                 145                 150
Asn Asp Gly Phe Gln Ala Phe Val Trp Trp Leu Leu Gly Ile Gly
            155                 160                 165
Ala Leu Thr Phe Ala Leu Leu Met Ser Ala Arg Met Gly Ile Phe
            170                 175                 180
Gln Glu Thr Leu Tyr Lys Arg Phe Gly Lys His Ser Lys Glu Ala
            185                 190                 195
Leu Phe Tyr Asn His Ala Leu Pro Leu Pro Gly Phe Val Phe Leu
            200                 205                 210
Ala Ser Asp Ile Tyr Asp His Ala Val Leu Phe Asn Lys Ser Glu
            215                 220                 225
Leu Tyr Glu Ile Pro Val Ile Gly Val Thr Leu Pro Ile Met Trp
            230                 235                 240
Phe Tyr Leu Leu Met Asn Ile Ile Thr Gln Tyr Val Cys Ile Arg
            245                 250                 255
Gly Val Phe Ile Leu Thr Thr Glu Cys Ala Ser Leu Thr Val Thr
            260                 265                 270
Leu Val Val Thr Leu Arg Lys Phe Val Ser Leu Ile Phe Ser Ile
            275                 280                 285
Leu Tyr Phe Gln Asn Pro Phe Thr Leu Trp His Trp Leu Gly Thr
            290                 295                 300
Leu Phe Val Phe Ile Gly Thr Leu Met Tyr Thr Glu Val Trp Asn
            305                 310                 315
Asn Leu Gly Thr Thr Lys Ser Glu Pro Gln Lys Asp Ser Lys Lys
            320                 325                 330
Asn
```

<210> 34
<211> 398
<212> PRT
<213> Homo sapiens

<220>

<221> misc_feature
<223> Incyte ID No: 5373575CD1

<400> 34

```
Met Leu Gly Arg Ser Gly Tyr Arg Ala Leu Pro Leu Gly Asp Phe
  1               5                  10                  15
Asp Arg Phe Gln Gln Ser Ser Phe Gly Phe Leu Gly Ser Gln Lys
             20                  25                  30
Gly Cys Leu Ser Pro Glu Arg Gly Gly Val Gly Thr Gly Ala Asp
             35                  40                  45
Val Pro Gln Ser Trp Pro Ser Cys Leu Cys His Gly Leu Ile Ser
             50                  55                  60
Phe Leu Gly Phe Leu Leu Leu Leu Val Thr Phe Pro Ile Ser Gly
             65                  70                  75
Trp Phe Ala Leu Lys Ile Val Pro Thr Tyr Glu Arg Met Ile Val
             80                  85                  90
Phe Arg Leu Gly Arg Ile Arg Thr Pro Gln Gly Pro Gly Met Val
             95                 100                 105
Leu Leu Leu Pro Phe Ile Asp Ser Phe Gln Arg Val Asp Leu Arg
            110                 115                 120
Thr Arg Ala Phe Asn Val Pro Pro Cys Lys Leu Ala Ser Lys Asp
            125                 130                 135
Gly Ala Val Leu Ser Val Gly Ala Asp Val Gln Phe Arg Ile Trp
            140                 145                 150
Asp Pro Val Leu Ser Val Met Thr Val Lys Asp Leu Asn Thr Ala
            155                 160                 165
Thr Arg Met Thr Ala Gln Asn Ala Met Thr Lys Ala Leu Leu Lys
            170                 175                 180
Arg Pro Leu Arg Glu Ile Gln Met Glu Lys Leu Lys Ile Ser Asp
            185                 190                 195
Gln Leu Leu Leu Glu Ile Asn Asp Val Thr Arg Ala Trp Gly Leu
            200                 205                 210
Glu Val Asp Arg Val Glu Leu Ala Val Glu Ala Val Leu Gln Pro
            215                 220                 225
Pro Gln Asp Ser Pro Ala Gly Pro Asn Leu Asp Ser Thr Leu Gln
            230                 235                 240
Gln Leu Ala Leu His Phe Leu Gly Gly Ser Met Asn Ser Met Ala
            245                 250                 255
Gly Gly Ala Pro Ser Pro Gly Pro Ala Asp Thr Val Glu Met Val
            260                 265                 270
Ser Glu Val Glu Pro Pro Ala Pro Gln Val Gly Ala Arg Ser Ser
            275                 280                 285
Pro Lys Gln Pro Leu Ala Glu Gly Leu Leu Thr Ala Leu Gln Pro
            290                 295                 300
Phe Leu Ser Glu Ala Leu Val Ser Gln Val Gly Ala Cys Tyr Gln
            305                 310                 315
Phe Asn Val Val Leu Pro Ser Gly Thr Gln Ser Ala Tyr Phe Leu
            320                 325                 330
Asp Leu Thr Thr Gly Arg Gly Arg Val Gly His Gly Val Pro Asp
            335                 340                 345
Gly Ile Pro Asp Val Val Val Glu Met Ala Glu Ala Asp Leu Arg
            350                 355                 360
Ala Leu Leu Cys Arg Glu Leu Arg Pro Leu Gly Ala Tyr Met Ser
            365                 370                 375
Gly Arg Leu Lys Val Lys Gly Asp Leu Ala Met Ala Met Lys Leu
            380                 385                 390
```

Glu Ala Val Leu Arg Ala Leu Lys
395

<210> 35
<211> 220
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5524468CD1

<400> 35
Met Thr Trp Leu Val Leu Leu Gly Thr Leu Leu Cys Met Leu Arg
1 5 10 15
Val Gly Leu Gly Thr Pro Asp Ser Glu Gly Phe Pro Pro Arg Ala
20 25 30
Leu His Asn Cys Pro Tyr Lys Cys Ile Cys Ala Ala Asp Leu Leu
35 40 45
Ser Cys Thr Gly Leu Gly Leu Gln Asp Val Pro Ala Glu Leu Pro
50 55 60
Ala Ala Thr Ala Asp Leu Asp Leu Ser His Asn Ala Leu Gln Arg
65 70 75
Leu Arg Pro Gly Trp Leu Ala Pro Leu Phe Gln Leu Arg Ala Leu
80 85 90
His Leu Asp His Asn Glu Leu Asp Ala Leu Gly Arg Gly Val Phe
95 100 105
Val Asn Ala Ser Gly Leu Arg Leu Leu Asp Leu Ser Ser Asn Thr
110 115 120
Leu Arg Ala Leu Gly Arg His Asp Leu Asp Gly Leu Gly Ala Leu
125 130 135
Glu Lys Leu Leu Leu Phe Asn Asn Arg Leu Val His Leu Asp Glu
140 145 150
His Ala Phe His Gly Leu Arg Ala Leu Ser His Leu Tyr Leu Gly
155 160 165
Cys Asn Glu Leu Ala Ser Phe Ser Phe Asp His Leu His Gly Leu
170 175 180
Ser Ala Thr His Leu Leu Thr Leu Asp Leu Ser Ser Asn Arg Leu
185 190 195
Gly His Ile Ser Val Pro Glu Leu Ala Ala Leu Pro Ala Phe Leu
200 205 210
Lys Asn Gly Leu Tyr Leu His Asp Asn Thr
215 220

<210> 36
<211> 706
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5944279CD1

<400> 36
Met Glu Glu Asn Pro Thr Leu Glu Ser Glu Ala Trp Gly Ser Ser
1 5 10 15
Arg Gly Trp Leu Ala Pro Arg Glu Ala Arg Gly Gly Pro Ser Leu
20 25 30

```
Ser Ser Val Leu Asn Glu Leu Pro Ser Ala Ala Thr Leu Arg Tyr
                35                  40                  45
Arg Asp Pro Gly Val Leu Pro Trp Gly Ala Leu Glu Glu Glu Glu
                50                  55                  60
Glu Asp Gly Gly Arg Ser Arg Lys Ala Phe Thr Glu Val Thr Gln
                65                  70                  75
Thr Glu Leu Gln Asp Pro His Pro Ser Arg Glu Leu Pro Trp Pro
                80                  85                  90
Met Gln Ala Arg Arg Ala His Arg Gln Arg Asn Ala Ser Arg Asp
                95                 100                 105
Gln Val Val Tyr Gly Ser Gly Thr Lys Thr Asp Arg Trp Ala Arg
               110                 115                 120
Leu Leu Arg Arg Ser Lys Glu Lys Thr Lys Glu Gly Leu Arg Ser
               125                 130                 135
Leu Gln Pro Trp Ala Trp Thr Leu Lys Arg Ile Gly Gly Gln Phe
               140                 145                 150
Gly Ala Gly Thr Glu Ser Tyr Phe Ser Leu Leu Arg Phe Leu Leu
               155                 160                 165
Leu Leu Asn Val Leu Ala Ser Val Leu Met Ala Cys Met Thr Leu
               170                 175                 180
Leu Pro Thr Trp Leu Gly Gly Ala Pro Pro Gly Pro Pro Gly Pro
               185                 190                 195
Asp Ile Ser Ser Pro Cys Gly Ser Tyr Asn Pro His Ser Gln Gly
               200                 205                 210
Leu Val Thr Phe Ala Thr Gln Leu Phe Asn Leu Leu Ser Gly Glu
               215                 220                 225
Gly Tyr Leu Glu Trp Ser Pro Leu Phe Tyr Gly Phe Tyr Pro Pro
               230                 235                 240
Arg Pro Arg Leu Ala Val Thr Tyr Leu Cys Trp Ala Phe Ala Val
               245                 250                 255
Gly Leu Ile Cys Leu Leu Leu Ile Leu His Arg Ser Val Ser Gly
               260                 265                 270
Leu Lys Gln Thr Leu Leu Ala Glu Ser Glu Ala Leu Thr Ser Tyr
               275                 280                 285
Ser His Arg Val Phe Ser Ala Trp Asp Phe Gly Leu Cys Gly Asp
               290                 295                 300
Val His Val Arg Leu Arg Gln Arg Ile Ile Leu Tyr Glu Leu Lys
               305                 310                 315
Val Glu Leu Glu Glu Thr Val Val Arg Arg Gln Ala Ala Val Arg
               320                 325                 330
Thr Leu Gly Gln Gln Ala Arg Val Trp Leu Val Arg Val Leu Leu
               335                 340                 345
Asn Leu Leu Val Val Ala Leu Leu Gly Ala Ala Phe Tyr Gly Val
               350                 355                 360
Tyr Trp Ala Thr Gly Cys Thr Val Glu Leu Gln Glu Met Pro Leu
               365                 370                 375
Val Gln Glu Leu Pro Leu Leu Lys Leu Gly Val Asn Tyr Leu Pro
               380                 385                 390
Ser Ile Phe Ile Ala Gly Val Asn Phe Val Leu Pro Pro Val Phe
               395                 400                 405
Lys Leu Ile Ala Pro Leu Glu Gly Tyr Thr Arg Ser Arg Gln Ile
               410                 415                 420
Val Phe Ile Leu Leu Arg Thr Val Phe Leu Arg Leu Ala Ser Leu
               425                 430                 435
Val Val Leu Leu Phe Ser Leu Trp Asn Gln Ile Thr Cys Gly Gly
               440                 445                 450
```

```
Asp Ser Glu Ala Glu Asp Cys Lys Thr Cys Gly Tyr Asn Tyr Lys
                455                 460                 465
Gln Leu Pro Cys Trp Glu Thr Val Leu Gly Gln Glu Met Tyr Lys
                470                 475                 480
Leu Leu Leu Phe Asp Leu Leu Thr Val Leu Ala Val Ala Leu Leu
                485                 490                 495
Ile Gln Phe Pro Arg Lys Leu Leu Cys Gly Leu Cys Pro Gly Ala
                500                 505                 510
Leu Gly Arg Leu Ala Gly Thr Gln Glu Phe Gln Val Pro Asp Glu
                515                 520                 525
Val Leu Gly Leu Ile Tyr Ala Gln Thr Val Val Trp Val Gly Ser
                530                 535                 540
Phe Phe Cys Pro Leu Leu Pro Leu Leu Asn Thr Val Lys Phe Leu
                545                 550                 555
Leu Leu Phe Tyr Leu Lys Lys Leu Thr Leu Phe Ser Thr Cys Ser
                560                 565                 570
Pro Ala Ala Arg Thr Phe Arg Ala Ser Ala Ala Asn Phe Phe Phe
                575                 580                 585
Pro Leu Val Leu Leu Leu Gly Leu Ala Ile Ser Ser Val Pro Leu
                590                 595                 600
Leu Tyr Ser Ile Phe Leu Ile Pro Pro Ser Lys Leu Cys Gly Pro
                605                 610                 615
Phe Arg Gly Gln Ser Ser Ile Trp Ala Gln Ile Pro Glu Ser Ile
                620                 625                 630
Ser Ser Leu Pro Glu Thr Thr Gln Asn Phe Leu Phe Phe Leu Gly
                635                 640                 645
Thr Gln Ala Phe Ala Val Pro Leu Leu Leu Ile Ser Ser Ile Leu
                650                 655                 660
Met Ala Tyr Thr Val Ala Leu Ala Asn Ser Tyr Gly Arg Leu Ile
                665                 670                 675
Ser Glu Leu Lys Arg Gln Arg Gln Thr Glu Ala Gln Asn Lys Val
                680                 685                 690
Phe Leu Ala Arg Arg Ala Val Ala Leu Thr Ser Thr Lys Pro Ala
                695                 700                 705
Leu
```

<210> 37
<211> 466
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 6114480CD1

<400> 37

```
Met Ala Phe Val Leu Ile Leu Val Leu Ser Phe Tyr Glu Leu Val
  1               5                  10                  15
Ser Gly Gln Trp Gln Val Thr Gly Pro Gly Lys Phe Val Gln Ala
                20                  25                  30
Leu Val Gly Glu Asp Ala Val Phe Ser Cys Ser Leu Phe Pro Glu
                35                  40                  45
Thr Ser Ala Glu Ala Met Glu Val Arg Phe Phe Arg Asn Gln Phe
                50                  55                  60
His Ala Val Val His Leu Tyr Arg Asp Gly Glu Asp Trp Glu Ser
                65                  70                  75
```

```
Lys Gln Met Pro Gln Tyr Arg Gly Arg Thr Glu Phe Val Lys Asp
                80                  85                  90
Ser Ile Ala Gly Gly Arg Val Ser Leu Arg Leu Lys Asn Ile Thr
                95                 100                 105
Pro Ser Asp Ile Gly Leu Tyr Gly Cys Trp Phe Ser Ser Gln Ile
               110                 115                 120
Tyr Asp Glu Glu Ala Thr Trp Glu Leu Arg Val Ala Ala Leu Gly
               125                 130                 135
Ser Leu Pro Leu Ile Ser Ile Val Gly Tyr Val Asp Gly Gly Ile
               140                 145                 150
Gln Leu Leu Cys Leu Ser Ser Gly Trp Phe Pro Gln Pro Thr Ala
               155                 160                 165
Lys Trp Lys Gly Pro Gln Gly Gln Asp Leu Ser Ser Asp Ser Arg
               170                 175                 180
Ala Asn Ala Asp Gly Tyr Ser Leu Tyr Asp Val Glu Ile Ser Ile
               185                 190                 195
Ile Val Gln Glu Asn Ala Gly Ser Ile Leu Cys Ser Ile His Leu
               200                 205                 210
Ala Glu Gln Ser His Glu Val Glu Ser Lys Val Leu Ile Gly Glu
               215                 220                 225
Thr Phe Phe Gln Pro Ser Pro Trp Arg Leu Ala Ser Ile Leu Leu
               230                 235                 240
Gly Leu Leu Cys Gly Ala Leu Cys Gly Val Val Met Gly Met Ile
               245                 250                 255
Ile Val Phe Phe Lys Ser Lys Gly Lys Ile Gln Ala Glu Leu Asp
               260                 265                 270
Trp Arg Arg Lys His Gly Gln Ala Glu Leu Arg Asp Ala Arg Lys
               275                 280                 285
His Ala Val Glu Val Thr Leu Asp Pro Glu Thr Ala His Pro Lys
               290                 295                 300
Leu Cys Val Ser Asp Leu Lys Thr Val Thr His Arg Lys Ala Pro
               305                 310                 315
Gln Glu Val Pro His Ser Glu Lys Arg Phe Thr Arg Lys Ser Val
               320                 325                 330
Val Ala Ser Gln Gly Phe Gln Ala Gly Arg His Tyr Trp Glu Val
               335                 340                 345
Asp Val Gly Gln Asn Val Gly Trp Tyr Val Gly Val Cys Arg Asp
               350                 355                 360
Asp Val Asp Arg Gly Lys Asn Asn Val Thr Leu Ser Pro Asn Asn
               365                 370                 375
Gly Tyr Trp Val Leu Arg Leu Thr Thr Glu His Leu Tyr Phe Thr
               380                 385                 390
Phe Asn Pro His Phe Ile Ser Leu Pro Pro Ser Thr Pro Pro Thr
               395                 400                 405
Arg Val Gly Val Phe Leu Asp Tyr Glu Gly Gly Thr Ile Ser Phe
               410                 415                 420
Phe Asn Thr Asn Asp Gln Ser Leu Ile Tyr Thr Leu Leu Thr Cys
               425                 430                 435
Gln Phe Glu Gly Leu Leu Arg Pro Tyr Ile Gln His Ala Met Tyr
               440                 445                 450
Asp Glu Glu Lys Gly Thr Pro Ile Phe Ile Cys Pro Val Ser Trp
               455                 460                 465
Gly
```

<210> 38
<211> 2801

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 112301CB1

<400> 38
cgccttcccc gagcgagacc aaaacaggtg gaatccgggc tggagccgga gctccggcgg 60
cgcgggtggc ggcacgtccc tccagacagt accacaggca cctggagtac cggcatcggt 120
cgctgtggcc cccgagtgtc cgtcagagcc taggggagcc tgccctcccg cgcctcgtcg 180
gggcccggcc aggcaccttg gccgccggcg cacggacgcg ggcacgagca ctagatcacg 240
gctgctggac ctcggcacgt tgacaagatt tctctggggt accgcggagg attactttga 300
atttcggtgg tcgcctgtgg tctggcatat ttagaactta agtctattat ttcgggcacc 360
atgactttga ggcttttaga agactggtgc aggggatgg acatgaaccc tcggaaagcg 420
ctattgattg ccggcatctc ccagagctgc agtgtggcag aaatcgagga ggctctgcag 480
gctggtttag ctcccttggg ggagtacaga ctgcttggaa ggatgttcag gagggatgag 540
aacaggaaag tagccttagt agggcttact gcggagacta gtcacgccct ggtccctaag 600
gagataccgg gaaaaggggg tatctggaga gtgatcttta agccccctga cccagataat 660
acatttttaa gcagattaaa tgaattttta gcgggagagg gcatgacagt gggtgagttg 720
agcagagctc ttggacatga aaatggctcc ttagacccag agcagggcat gatcccggaa 780
atgtgggccc ctatgttggc acaggcatta gaggctcttc agcctgccct gcaatgcttg 840
aagtataaaa agctgagagt gttctcgggc agggagtctc cagaaccagg agaagaagaa 900
tttggacgct ggatgtttca tactactcag atgataaagg cgtggcaggt gccagatgta 960
gagaagagaa ggcgattgct agagagcctt cgaggcccag cacttgatgt tattcgtgtc 1020
ctcaagataa acaatccttt aattactgtc gatgaatgtc tgcaggctct tgaggaggta 1080
tttggggtta cagataatcc tagggagttg caggtcaaat atctaaccac ttaccagaag 1140
gatgaggaaa agttgtcggc ttatgtacta aggctggagc ctttgttaca gaagctggta 1200
cagagaggag caattgagag agatgctgtg aatcaggccc gcctagacca agtcattgct 1260
ggggcagtcc acaaaacaat tcgcagagag cttaatctgc cagaggatgg cccagcccct 1320
ggtttcttgc agttattggt actaataaag gattatgagg cagctgagga ggaggaggcc 1380
cttctccagg caatattgga aggtaatttc acctgagtct cagggaacca cgaaggata 1440
tggcaatgag tagagcatga aggtagaaca gtctatatac tcttgtgaca catacaatcc 1500
ctaccttgtg ctgccaagta actcattttt gtgcaattct cagtataagc cctttgtcgt 1560
ttctgtgcct atttaaagtc tcctaaaggt gtaattgact aggaaggatg tagttctaca 1620
ctgccattta cctatttaaa ttcatccttg tgaatatctt tgttgttgtt gttgagacag 1680
agtctcgctc tgtcacccag gctggagtgc agtgacgtga tcttggctca ctgcatcctc 1740
cgccttccag gtttaagcta ttctcctgcc tcagttgccc gagtagctgg gactacagga 1800
atgactcacc acacccagct aagttttgca ttatcagtag agacggggtt tctccatact 1860
ggtcaggctg gtctcgaact cctgacctca agtgatccac ctgccttggc ctcccaaagt 1920
gctgggatta caggcgtgag ccaccacacc cagcctcagt tcccttattt taataattgt 1980
cctatttcgt ggggttgcta taaagattac atgagacttt aatgggaaag tatttaggac 2040
agtgtatggg acaaagttag taccagacat gcataaggca tttgaaaacc tgggtgcttt 2100
ctctctcact cttaccattt atagacaggg gtcatataat ttttttgtt gagacggagt 2160
ctcgctctgt ggcccaggct ggagagcagt ggtgtgatct cagctcatgg gttcaagcga 2220
ttctcgtgcc tcagcctccc gagtagctgg gactataggc atgcgccacc aggcccagcc 2280
aatttttata tttttagtag agatggggtt tctccatgtt agccaggcta cccaggctgg 2340
tctcgatctc ctgacctcag gtgatccacc cacctgggcc tcccaaagtg ctgggattac 2400
aggcgtgagc cactgccccc tgccttctta cactttttct ttgagactgg gtcgcacagt 2460
cgcacagtga gactccatct cctatgaaaa aaaagattgg cctagcgtct ggctcaggcc 2520
tgtaatccca gcactttggg aggccaaggc gggcggatca caaggtcagg agatcgaggc 2580
cagcatggcc aacatggtga caccctgttt ctactaaaaa tacaaaaaaa attagccggg 2640
catggtggcg catgcctata gtgtcagcta ctctggagaa tcgcttgaac ccgggaggcg 2700
gaggttgcag tgagccgaga ttgcgtcact gcactacagc ctgggcaaca gagcgagact 2760
cccgtctcag aaaaaaaaag ttttggtgcc aaccggacga g 2801

<210> 39
<211> 2656
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 997947CB1

<220>
<221> unsure
<222> 2554, 2587, 2604, 2606, 2611, 2644, 2646-2647, 2651
<223> a, t, c, g, or other

<400> 39
ccactctcta gagctcccgg actcctagct ctgagaatgc ctgcggaatg atcgcccccc 60
aggccggctg ccgccgctgc cgctgctgct gttattgcta ctgctgctgc cgccgcctct 120
gcttccactc ggctctgact ggcaggcaga aagtgcaact gacgagggaa aggtctctgc 180
agtgagtgga gagcctacat aaaagagagt aaagaggggc aaaaacccag atcagaatgc 240
aggcgacgtc caaccttctc aacctcctgc tgctgtcttt gtttgccgga ttagatcctt 300
ccaagactca gattagtcct aaagaagggt ggcaggtgta cagctcagct caggatcctg 360
atgggcggtg catttgcaca gttgttgctc cagaacaaaa cctgtgttcc cgggatgcca 420
aaagcaggca acttcgccaa ctactggaaa aggttcagaa catgtcccag tctattgaag 480
tcttaaactt gagaactcag agagatttcc aatatgtttt aaaaatggaa acccaaatga 540
aagggctgaa ggcaaaattt cggcagattg aagatgatcg aaagacactt atgaccaagc 600
attttcagga gttgaaagag aaaatggacg agctcctgcc tttgatcccc gtgctggaac 660
agtacaaaac agatgctaag ttaatcaccc agttcaagga ggaaataagg aatctgtctg 720
ctgtcctcac tggtattcag gaggaaattg gtgcctatga ctacgaggaa ctacaccaaa 780
gagtgctgag cttggaaaca agacttcgtg actgcatgaa aaagctaaca tgtggcaaac 840
tgatgaaaat cacaggccca gttacagtca agacatctgg aacccgattt ggtgcttgga 900
tgacagaccc tttagcatct gagaaaaaca acagagtctg gtacatggac agttatacta 960
acaataaaat tgttcgtgaa tacaaatcaa ttgcagactt tgtcagtggg gctgaatcaa 1020
ggacatacaa ccttcctttc aagtgggcag gaactaacca tgttgtctac aatggctcac 1080
tctattttaa caagtatcag agtaatatca tcatcaaata cagctttgat atggggagag 1140
tgcttgccca acgaagcctg gagtatgctg gttttcataa tgtttacccc tacacatggg 1200
gtggattctc tgacatcgac ctaatggctg atgaaatcgg gctgtgggct gtgtatgcaa 1260
ctaaccagaa tgcaggcaat attgtcatca gccaacttaa ccaagatacc ttggaggtga 1320
tgaagagctg gagcactggc taccccaaga gaagtgcagg ggaatctttc atgatctgtg 1380
ggacactgta tgtcaccaac tcccacttaa ctggagccaa ggtgtattat tcctattcca 1440
ccaaaacctc cacatatgag tacacagaca ttcccttcca taaccaatac tttcacatat 1500
ccatgcttga ctacaatgca agagatcgag ctctctatgc ctggaacaat ggccaccagg 1560
tgctgttcaa tgtcaccctt ttccatatca tcaagacaga ggatgacaca taggcaaatg 1620
tgacatgttt tcattgattt aaacagtgtg atttgtgata aactctataa gaccccttcc 1680
gttttttttct tcactattat ttttcatcat ttctccaaag caaagcattt ttattgtaaa 1740
gttggtgttt caaaaacata gctgagcttg tctaacttac catgttggaa acacatctta 1800
acttctaaat ttacaaggcc tatcatgtcc ttgtcatgaa aagcactaaa aaaaaaaaga 1860
gtttaagtgg ctaaagtcat agttttgcaa gagattaatg atctgcctta tattagagtc 1920
agagactaat ggtggcttaa atgcacgaat gtctttttttt tttaaaactg tcatttttta 1980
ctgtcttttg ctccatatca ggaaatattt tggtaggaat taggagaaca aaaagcactt 2040
ttatcccatt tatttcttta aaaaatgtaa ggatttcatt tatattgaaa aataatatta 2100
atcattttgc tgttaacaca attctctgat gcggtgctgt acagtcattt ttaaatctct 2160
tgctaacatt ttattggcag tatgtatttc taccattgta accaccattg tgctattgta 2220
tctcttcact tctgtgaaag taatattttt tataaaatac actgaaattt aacctcagta 2280
attgagtcca ttttcaagtg tggtcaagaa taatcttctt ggcttacccc tttacataag 2340
cattataaac taaaatgaaa accaaaccag acacctgaca tagagtcttt attttacccc 2400
aagttttttg ggccactgac attgaatgca acaactgatt tcatacaact gagttactct 2460

gttcactcca ctgaatgcaa cccatatagt ttcttgcaca aggtgcatct ggattctaaa 2520
tattggattt gagttgactc tactcattta ttanacacta aagaaatttt gttcttcata 2580
gttaaangta ctagcattta attnanattt nacatacaac ttgcaataat gaaattcctt 2640
atgncnngac nctgaa 2656

<210> 40
<211> 968
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1521513CB1

<400> 40
tctacatcta tcggagctga acttcctaaa agacaaagtg tttatctttc aagattcatt 60
ctccctgaat cttaccaaca aaacactcct gaggagaaag aaagagaggg agggagagaa 120
aaagagagag agagaaacaa aaaaccaaag agagagaaaa aatgaattca tctaaatcat 180
ctgaaacaca atgcacagag agaggatgct tctcttccca aatgttctta tggactgttg 240
ctgggatccc catcctattt ctcagtgcct gtttcatcac cagatgtgtt gtgacatttc 300
gcatctttca aacctgtgat gagaaaaagt ttcagctacc tgagaatttc acagagctct 360
cctgctacaa ttatggatca ggttcagtca agaattgttg tccattgaac tgggaatatt 420
ttcaatccag ctgctacttc ttttctactg acaccatttc ctgggcgtta agtttaaaga 480
actgctcagc catgggggct cacctggtgg ttatcaactc acaggaggag caggaattcc 540
tttcctacaa gaaacctaaa atgagagagt tttttattgg actgtcagac caggttgtcg 600
agggtcagtg gcaatgggtg gacggcacac ctttgacaaa gtctctgagc ttctgggatg 660
taggggagcc caacaacata gctaccctgg aggactgtgc caccatgaga gactcttcaa 720
acccaaggca aaattggaat gatgtaacct gtttcctcaa ttattttcgg atttgtgaaa 780
tggtaggaat aaatcctttg aacaaaggaa aatctcttta agaacagaag gcacaactca 840
aatgtgtaaa gaaggaagag caagaacatg gccacaccca ccgccccaca cgagaaattt 900
gtgcgctgaa cttcaaagga cttcataagt atttgttact ctgatataaa taaaaataag 960
tagtttta 968

<210> 41
<211> 1837
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1863994CB1

<400> 41
ccccagcccc gctcagtccc gagcgcccgc agtcgtcgcg ccgccgcgcc aagcatgcag 60
taaaggctga aaatctgggt cacagctgag gaagacctca gacatggagt ccaggatgtg 120
gcctgcgctg ctgctgtccc acctcctccc tctctggcca ctgctgttgc tgccctccc 180
accgcctgct cagggctctt catcctcccc tcgaacccca ccagccccag cccgcccccc 240
gtgtgccagg ggaggccccc cggccccacg tcatgtgtgc gtgtgggagc gagcacctcc 300
accaagccga tctcctcggg tcccaagatc acgtcggcaa gtcctgcctg gcactgcacc 360
cccagccacc ccatcaggct ttgaggaggg gccgccctca tcccaatacc cctgggctat 420
cgtgtggggt cccaccgtgt ctcgagagga tggaggggac cccaactctg ccaatcccgg 480
atttctggac tatggttttg cagcccctca tgggctcgca accccacacc ccaactcaga 540
ctccatgcga ggtgatggag atgggcttat ccttggagag gcacctgcca ccctgcggcc 600
attcctgttc gggggccgtg gggaaggtgt ggacccccag ctctatgtca caattaccat 660
ctccatcatc attgttctcg tggccactgg catcatcttc aagttctgct gggaccgcag 720
ccagaagcga cgcagaccct cagggcagca aggtgccctg aggcaggagg agagccagca 780

gccactgaca gacctgtccc cggctggagt cactgtgctg ggggccttcg gggactcacc 840
taccccacc cctgaccatg aggagccccg agggggaccc cggcctggga tgccccaccc 900
caaggggget ccagccttcc agttgaaccg gtgagggcag gggcaatggg atgggagggc 960
aaagagggaa ggcaacttag gtcttcagag ctggggtggg ggtgcccict ggatgggtag 1020
tgaggaggca ggcgtggcct cccacagccc ctggccctcc caaggggget ggaccagctc 1080
ctctctggga ggcacccttc cttctcccag tctctcagga tctgtgtcct attctctgct 1140
gcccataact ccaactctgc cctctttggt tttttctcat gccaccttgt ctaagacaac 1200
tctgccctct taaccttgat tccccctctt tgtcttgaac ttcccccttct attctggcct 1260
acccctggt tcctgactgt gccctttccc tcttcctctc aggattcccc tggtgaatct 1320
gtgatgcccc caatgttggg gtgcagccaa gcaggaggcc aaggggccgg cacagccccc 1380
atcccactga gggtggggca gctgtgggga gctggggcca caggggctcc tggctcctgc 1440
cccttgcaca ccacccggaa cactccccag ccccacgggc aatcctatct gctcgccctc 1500
ctgcaggtgg gggcctcaca tatctgtgac ttcgggtccc tgtccccacc cttgtgcact 1560
cacatgaaag ccttgcacac tcacctccac cttcacaggc catttgcaca cgctcctgca 1620
ccctctcccc gtccataccg ctccgctcag ctgactctca tgttctctcg tctcacattt 1680
gcactctctc cttcccacat tctgtgctca gctcactcag tggtcagcgt ttcctgcaca 1740
ctttacctct catgtgcgtt tcccggcctg atgttgtggt ggtgtgcggc gtgctcactc 1800
tctccctcat gaacacccac ccacctcgtt tcgcagc 1837

<210> 42
<211> 2124
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2071941CB1

<400> 42
gtgacgcggc tgcggaggtg acgcgggagg tcgcgcgccc cttccggcgc ggggagggcg 60
ctgaagatcg gggccgctcg gccgcaggcg cctccagcgc cgcgggatgt agcgcggggg 120
accgcggccc ccagcagagc ccgcctgccc ggcttgtcta ccatcagagg gagatctctg 180
ccccctgggg ctgagagacc ccaacctttc cccaagctga agctgcaggg tattgaggta 240
ccagccagat gtcttcccac aaaggatctg tggtggcaca ggggaatggg gctcctgcca 300
gtaacaggga agctgacacg gtggaactgg ctgaactggg acccctgcta gaagagaagg 360
gcaaacgggt aatcgccaac ccacccaaag ctgaagaaga gcaaacatgc ccagtgcccc 420
aggaagaaga ggaggaggtg cgggtactga cacttccccct gcaagcccac cacgccatgg 480
agaagatgga agagtttgtg tacaaggtct gggagggacg ttggagggtc atcccatatg 540
atgtgctccc tgactggcta aaggacaacg actatctgct acatggtcat agacctccca 600
tgccctcctt tcgggcttgc ttcaagagca tcttccgcat tcatacagaa actggcaaca 660
tctggaccca tctgcttggt ttcgtgctgt ttctcttttt gggaatcttg accatgctca 720
gaccaaatat gtacttcatg gcccctctac aggagaaggt ggtttttggg atgttctttt 780
tgggtgcagt gctctgcctc agcttctcct ggctctttca caccgtctat tgtcattcag 840
agaaagtctc tcggactttt tccaaactgg actattcagg gattgctctt ctaattatgg 900
ggagctttgt cccctggctc tattattcct tctactgctc cccacagcca cggctcatct 960
acctctccat cgtctgtgtc ctgggcattt ctgccatcat tgtggcgcag tgggaccggt 1020
ttgccactcc taagcaccgg cagacaagag caggcgtgtt cctgggactt ggcttgagtg 1080
gcgtcgtgcc caccatgcac tttactatcg ctgagggctt tgtcaaggcc accacagtgg 1140
gccagatggg ctggttcttc ctcatggctg tgatgtacat cactggagct ggcctttatg 1200
ctgctcgaat tcctgagcgc ttctttcctg gaaaatttga catatggttc cagtctcatc 1260
agattttcca tgtcctggtg gtggcagcag cctttgtcca cttctatgga gtctccaacc 1320
ttcaggaatt ccgttacggc ctagaaggcg gctgtactga tgacaccctt ctctgagcct 1380
tcccacctgc ggggtggagg aggaacttcc caagtgcttt taaaaataac ttctttgctg 1440
aagtgagagg aagagtctga gttgtctgtt tctagaagaa acctcttaga gaattcagta 1500
ccaaccaagc ttcagcccac tttcacaccc actgggcaat aaactttcca tttccattct 1560
cctagctggg gatggggcat ggtcaaactt agccatcccc tcctcagcaa ggcatctacc 1620

ggcccctcac agagacagta ctttgaaact catgttgaga ttttaccctc tcctccaacc 1680
attttgggaa aattatggac tgggactctt cagaaattct gtcttttctt ctggaagaaa 1740
atgtccctcc cttaccccca tccttaactt tgtatcctgg cttataacag gccatccatt 1800
tttgtagcac actttttaaa aacaattata taccctggtc ccatctttct agggcctgga 1860
tctgcttata gagcaggaag aataaagcca ccaactttta cctagcccgg ctaatcatgg 1920
aagtgtgtcc aggcttcaag taacttgagt tttaattttt ttttttttct tggcagagta 1980
atgtaaaatt taaatgggga aagatattta atatttaata ctaagcttta aaaagaaacc 2040
tgctatcatt gctatgtatc ttgatgcaaa gactatgatg ttaataaaag aaagtacaga 2100
agagacttgg cattcaaaaa aaaa 2124

<210> 43
<211> 993
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2172512CB1

<400> 43
ccgcgcgctt actttgttta taacttgaaa aatcctctcc gtctcccttc cctgcctcct 60
ttcctttccc tttcctctgc cagtacaact agacccggcg tctggcgtcc ccggtgccca 120
gcattctgcg gggcaggcgg attaattgga attcttcaaa atgtcaggtg tggtacccac 180
agcccctgaa cagcctgcag gtgaaatgga aaatcaaaca aaaccaccag atccaaggcc 240
tgatgctcct cctgaataca gttctcattt tttaccagga ccccctggaa cagctgtccc 300
tccacctact ggctacccag gaggcttgcc tatgggatac tacagtccac agcaacccag 360
taccttccct ttgtaccagc cagttggtgg tatccatcct gtccggtatc agcctggcaa 420
atatcctatg ccaaatcagt ctgttccaat aacatggatg ccagggccaa ctcctatggc 480
aaactgccct cctggtctgg aatacttagt tcagttggac aacatacatg ttcttcagca 540
ttttgagcct ctggaaatga tgacatgttt tgaaactaat aatagatatg atattaaaaa 600
caactcagac cagatggttt acattgtaac cgaagacaca gatgacttta ccaggaatgc 660
ctatcggaca ctaaggccct tcgtcctccg ggtcactgat tgtatgggcc gagaaatcat 720
gacaatgcag agacccttca gatgcacctg ctgttgcttc tgttgccccc ctgccagaca 780
agagctggag gtgcagtgtc ctcctggtgt caccattggc tttgttgcgg aacattggaa 840
cctgtgcagg gcggtgtaca gcatccaaaa aaaaaaaaaa aaaattgcgg cgcaagctta 900
ttccctttag tgaggttaat ttttgggggc atgtgccgtg gcagtgcggt ggtgttggtg 960
gttgtgtggg ggtggggtgg gggttggtgg ggt 993

<210> 44
<211> 2214
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2483172CB1

<400> 44
ggctctcggc ccagcgcgcc tgccttcgcc gcccgccgtc gctcctcgcc cgctgcacga 60
cgacgcgacg cccctgctgc aggcggcgga cccgaccgga cccagaccca gacgcaagat 120
ggcgacggcc gcgtgactgc ctcagcgtcc ccgagctcgg ctccgagtgc acctacggac 180
tgactgtggg ggcagagaag ggcgagatca ggactctgtc tttgttaatc gtgactgcat 240
gaaggtcgcc tccctcgggc ctacttggtg ggagtgtctg gtattgttct aaggccagga 300
gcacggtgag ccacagtctg ttggtagaat ttggcgtctt gatagttgag aaaatggcga 360
tgacactgtt ggaagactgg tgccggggga tggatgtgaa ctcccagaga gctctgttag 420
tctggggcat cccagtgaac tgtgatgagg ctgaaatcga agagaccctc caggctgcga 480

tgccccaggt ctcctaccga atgcttggga gaatgttctg gagggaagaa aatgcgaaag 540
cagccttatt agagctcact ggcgctgtag attacgccgc gatccccagg gagatgccgg 600
gcaaaggagg ggtctggaaa gtgttattta agcccccaac ttctgatgct gaatttttag 660
aaagattgca cctcttccta gctagagagg ggtggaccgt gcaagatgtt gcccgtgtcc 720
ttgggtttca gaaccctact ccgaccccgg gcccagagat gccagcagag atgctaaact 780
atattttgga taatgttatt cagcctcttg ttgagtccat atggtacaag aggctgacac 840
ttttctcggg gagggacatc ccagggcctg gagaggaaac ctttgatccc tggctggagc 900
acactaatga ggtcctagag gagtggcagg tgtccgatgt agaaaagagg cggcggttga 960
tggagagtct tagaggcccc gccgctgatg ttattcgcat ccttaagtcc aacaaccccg 1020
cgataaccac tgccgaatgc ctgaaggcgc ttgagcaggt gtttgggagc gttgagagct 1080
ctagggatgc ccagatcaaa tttctgaaca cttatcagaa cccgggagaa aaattgtctg 1140
cttatgtcat tcgtctggag cctctgctac agaaggtggt agagaagggg gccattgata 1200
aagataatgt gaaccaggcc cgcctagagc aggtcattgc cggggccaac cacagcgggg 1260
ccatccgaag gcagctgtgg cttaccgggg ctggggaagg gccagcccca aacctctttc 1320
agttgctggt gcagatccgt gaggaggaag ccaaggagga ggaggaggag gctgaggcca 1380
cccttctgca gttaggcctg gaagggcact tctgagtgcc aggaaaggca gctttagtgc 1440
agacctagat cacagctact tttcttgtcc ctgtggggtc ttacagatgt gtctctgagt 1500
agtaaaggct tagccttgtt ctgttttgtt gtttttgga ggggaaggtt agtcaggcct 1560
gagtattcat gtaacattct aaaattgtgc cagcgagcac cgtgaacgac tgcaatgcaa 1620
gcgggtcttg ctggctaagg taaagggttg gttggacaca gcgcttagtg cacgctgtca 1680
tcatggacat cataatcagt tgtgaaaaac acgcgaacct atgacacttc ttattccaca 1740
ctgaatgtga aattgcatgt tcagatgttt actacgaggc ctggctcaca ggaagtgttc 1800
agtaaaagta tgcactgtta gattactgat aacgcggata gatttttgtt taccataaat 1860
tgttccagat ttatattaat ggaaggaaat gtgcatttat tagctattac tcaactttac 1920
aatgcaaaca tcttatttct catctttaaa catgtcgacc agtttaattg aaaagtattc 1980
tgagactgca aaatggggtg ttaaaaaata ctgcagttac ggagctgtgt aaaccagttt 2040
ctcattgcat aagatacaga tgtaaattgc atggagaggt tgatatgcac ctgtacagta 2100
attcactccc ccatttcaca tctttgtcag agaatagttc ttgttcatac tgagtgttct 2160
aaatttgaag ttatatatac aaattaaaat attttaaaaa ttcaaaaaaa aaaa 2214

<210> 45
<211> 897
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2656128CB1

<400> 45
gcaaaatgca tgacagtaac aatgtggaga aagacattac accatctgaa ttgcctgcaa 60
acccaggttg tctgcattca aaagagcatt ctattaaagc taccttaatt tggcgcttat 120
ttttcttaat catgtttctg acaatcatag tgtgtggaat ggttgctgct ttaagcgcaa 180
taagagctaa ctgccatcaa gagccatcag tatgtcttca agctgcatgc ccagaaagct 240
ggattggttt tcaaagaaag tgtttctatt tttctgatga caccaagaac tggacatcaa 300
gtcagaggtt ttgtgactca caagatgctg atcttgctca ggttgaaagc ttccaggaac 360
tgaatttcct gttgagatat aaaggcccat ctgatcactg gattgggctg agcagagaac 420
aaggccaacc atggaaatgg ataaatggta ctgaatggac aagacagtta gtcatgaaag 480
aagatggtgc caacttgtat gttgcaaagg tttcacaagt tcctcgaatg aatccaagac 540
ctgtcatggt ttcctatcct gggagcagga gagtgtgcct atttgaatga caaaggtgcc 600
agtagtgcca ggcactacac agagaggaag tggatttgtt ccaaatcaga tatacatgtc 660
tagatgttac agcaaagccc caactaatct ttagaagcat attggaactg ataactccat 720
tttaaaatga gcaaagaatt tatttcttat accaacaggt atatgaaaat atgctcaata 780
tcactaataa ctgggaaaat acaaatcaaa atcatagtaa aatattacct gttttcatgg 840
tgctaatatt acctgttctc ccactgctaa tgacataccc gagactgagt aatttaa 897

<210> 46
<211> 2167
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5855841CB1

<400> 46
gccggggccg gagttcgctg caagtcggcg gaaagtttgg ctgcgcgggt tcccccgaag 60
ttcagagtga agacatttcc acctggacac ctgaccatgt gcctgccctg agcagcgagg 120
cccaccaggc atctctgttg tgggcagcag ggccaggtcc tggtctgtgg accctcggca 180
gttggcaggc tccctctgca gtggggtctg ggcctcggcc ccaccatgtc gagcctcggc 240
ggtggctccc aggatgccgg cggcagtagc agcagcagca ccaatggcag cggtggcagt 300
ggcagcagtg gcccaaaggc aggagcagca gacaagagtg cagtggtggc tgccgccgca 360
ccagcctcag tggcagatga cacaccaccc cccgagcgtc ggaacaagag cggtatcatc 420
agtgagcccc tcaacaagag cctgcgccgc tcccgcccgc tctcccacta ctcttctttt 480
ggcagcagtg gtggtagtgg cggtggcagc atgatgggcg gagagtctgc tgacaaggcc 540
actgcggctg cagccgctgc ctccctgttg gccaatgggc atgacctggc ggcggccatg 600
gcggtggaca aaagcaaccc tacctcaaag cacaaaagtg gtgctgtggc cagcctgctg 660
agcaaggcag agcgggccac ggagctggca gccgagggac agctgacgct gcagcagttt 720
gcgcagtcca cagagatgct gaagcgcgtg gtgcaggagc atctcccgct gatgagcgag 780
gcgggtgctg gcctgcctga catggaggct gtggcaggtg ccgaagccct caatggccag 840
tccgacttcc cctacctggg cgctttcccc atcaacccag gcctcttcat tatgaccccg 900
gcaggtgtgt tcctggccga gagcgcgctg cacatggcgg gcctggctga gtaccccatg 960
cagggagagc tggcctctgc catcagctcc ggcaagaaga agcggaaacg ctgcggcatg 1020
tgcgcgccct gccggcggcg catcaactgc gagcagtgca gcagttgtag gaatcgaaag 1080
actggccatc agatttgcaa attcagaaaa tgtgaggaac tcaaaaagaa gccttccgct 1140
gctctggaga aggtgatgct tccgacggga gccgccttcc ggtggtttca gtgacggcgg 1200
cggaacccaa agctgccctc tccgtgcaat gtcactgctc gtgtggtctc cagcaaggga 1260
ttcgggcgaa gacaaacgga tgcacccgtc tttagaacca aaaatattct ctcacagatt 1320
tcattcctgt ttttatatat atatttttg ttgtcgtttt aacatctcca cgtccctagc 1380
ataaaaagaa aaagaaaaaa atttaaactg ctttttcgga agaacaacaa caaaaaagag 1440
gtaaagacga atctataaag taccgagact tcctgggcaa agaatggaca atcagtttcc 1500
ttcctgtgtc gatgtcgatg ttgtctgtgc aggagatgca gtttttgtgt agagaatgta 1560
aattttctgt aacctttga aatctagtta ctaataagca ctactgtaat ttagcacagt 1620
ttaactccac cctcatttaa acttcctttg attctttccg accatgaaat agtgcatagt 1680
ttgcctggag aatccactca cgttcataaa gagaatgttg atggcgccgt gtagaagccg 1740
ctctgtatcc atccacgcgt gcagagctgc cagcagggag ctcacagaag gggagggagc 1800
accaggccag ctgagctgca cccacagtcc cgagactggg atcccccacc ccaacagtga 1860
ttttggaaaa aaaaatgaaa gttctgttcg tttatccatt gcgatctggg gagccccatc 1920
tcgatatttc caatcctggc tacttttctt agagaaaata agtccttttt ttctggcctt 1980
gctaatggca acagaagaaa gggcttcttt gcgtggtccc ctgctggtgg gggtgggtcc 2040
ccaggggggcc ccctgcggcc tgggcccccc tgcccacggc cagcttcctg ctgatgaaca 2100
tgctgtttgt attgttttag gaaaccaggc tgttttgtga ataaaacgaa tgcatgtttg 2160
tgtcacg 2167

<210> 47
<211> 1235
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 603462CB1

<400> 47
gtggagccgg cgagagagtg gcagcggggg ctgatggaag tgcagtgggg gctggagagg 60
gcaccctact gtatccagca tgctccaagg ccacagctct gtgttccagg ccttgctggg 120
gaccttcttc acctggggga tgacagcagc tggggcagct ctcgtgttcg tattctctag 180
tggacagagg cggatcttag atggaagtct tggctttgct gcaggggtca tgttggcagc 240
ttcctattgg tctcttctgg ccccagcagt tgagatggcc acgtcctctg ggggcttcgg 300
tgcctttgcc ttcttccctg tggctgttgg cttcaccctt ggagcggctt ttgtctactt 360
ggctgacctc ctgatgcctc acttgggtgc agcagaagac ccccagacgg ccctggcact 420
gaacttcggc tctacgttga tgaagaagaa gtctgatcct gagggtcccg cgctgctctt 480
ccctgagagt gaactttcca tccggataga caagagtgag aatggtgagg catatcagag 540
aaagaaggcg gcagccactg gccttccaga gggtcctgct gtccctgtgc cttctcgagg 600
gaatctggca cagcccggcg gcagcagctg gaggaggatc gcactgctca tcttggccat 660
cactatacac aacgttccag agggtctcgc tgttggagtt ggatttgggg ctatagaaaa 720
gacggcatct gctacctttg agagtgccag gaatttggcc attggaatcg ggatccagaa 780
tttccccgag ggcctggctg tcagccttcc cttgcgaggg gcaggcttct ccacctggag 840
agctttctgg tatgggcagc tgagcggcat ggtggagccc ctggccgggg tctttggtgc 900
ctttgccgtg gtgctggctg agcccatcct gccctacgct ctggcctttg ctgccggtgc 960
catggtctac gtggtcatgg acgacatcat ccccgaagcc cagatcagtg gtaatgggaa 1020
actggcatcc tgggcctcca tcctgggatt tgtagtgatg atgtcactgg acgttggcct 1080
gggctagggc tgagacgctt cggaccccgg gaaaggccat acgaagaaac agcagtggtt 1140
ggcttctatg ggacaacaag cttctttctt cacattaaaa ctttttcct tcctctcttc 1200
ttcatctcat tatcctgatt gactctaatt ataat 1235

<210> 48
<211> 2257
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 747681CB1

<400> 48
ccgagccgag cggaccgaag gcgcgcccga gatgcaggtg agcaagagga tgctggcggg 60
gggcgtgagg agcatgccca gccccctcct ggcctgctgg cagcccatcc tcctgctggt 120
gctgggctca gtgctgtcag gctcggccac gggctgcccg ccccgctgcg agtgctccgc 180
ccaggaccgc gctgtgctgt gccaccgcaa gcgctttgtg gcagtccccg agggcatccc 240
caccgagacg cgcctgctgg acctaggcaa gaaccgcatc aaaacgctca accaggacga 300
gttcgccagc ttcccgcacc tggaggagct ggagctcaac gagaacatcg tgagcgccgt 360
ggagcccggc gccttcaaca acctcttcaa cctccggacg ctgggtctcc gcagcaaccg 420
cctgaagctc atcccgctag gcgtcttcac tggcctcagc aacctgacca agctggacat 480
cagcgagaac aagattgtta tcctgctgga ctacatgttt caggacctgt acaacctcaa 540
gtcactggag gttggcgaca atgacctcgt ctacatctct caccgcgcct tcagcggcct 600
caacagcctg gagcagctga cgctggagaa atgcaacctg acctccatcc ccaccgaggc 660
gctgtcccac ctgcacggcc tcatcgtcct gaggctccgg cacctcaaca tcaatgccat 720
ccgggactac tccttcaaga ggctctaccg actcaaggtc ttggagatct cccactggcc 780
ctacttggac accatgacac ccaactgcct ctacggcctc aacctgacgt ccctgtccat 840
cacacactgc aatctgaccg ctgtgcccta cctggccgtc cgccacctag tctatctccg 900
cttcctcaac ctctcctaca accccatcag caccattgag ggctccatgt tgcatgagct 960
gctccggctg caggagatcc agctggtggg cgggcagctg gccgtggtgg agccctatgc 1020
cttccgcggc ctcaactacc tgcgcgtgct caatgtctct ggcaaccagc tgaccacact 1080
ggaggaatca gtcttccact cggtgggcaa cctggagaca ctcatcctgg actccaaccc 1140
gctggcctgc gactgtcggc tcctgtgggt gttccggcgc cgctggcggc tcaacttcaa 1200
ccggcagcag cccacgtgcg ccacgcccga gtttgtccag ggcaaggagt tcaaggactt 1260
ccctgatgtg ctactgccca actacttcac ctgccgccgc gcccgcatcc gggaccgcaa 1320
ggcccagcag gtgtttgtgg acgagggcca cacggtgcag tttgtgtgcc gggccgatgg 1380

cgacccgccg cccgccatcc tctggctctc accccgaaag cacctggtct cagccaagag 1440
caatgggcgg ctcacagtct tccctgatgg cacgctggag gtgcgctacg cccaggtaca 1500
ggacaacggc acgtacctgt gcatcgcggc caacgcgggc ggcaacgact ccatgcccgc 1560
ccacctgcat gtgcgcagct actcgcccga ctggccccat cagcccaaca agaccttcgc 1620
tttcatctcc aaccagccgg gcgagggaga ggccaacagc acccgcgcca ctgtgccttt 1680
ccccttcgac atcaagaccc tcatcatcgc caccaccatg ggcttcatct ctttcctggg 1740
cgtcgtcctc ttctgcctgg tgctgctgtt tctctggagc cggggcaagg gcaacacaaa 1800
gcacaacatc gagatcgagt atgtgccccg aaagtcggac gcaggcatca gctccgccga 1860
cgcgccccgc aagttcaaca tgaagatgat atgaggccgg ggcgggggggc agggaccccc 1920
gggcggccgg gcaggggaag gggcctggcc gccacctgct cactctccag tccttcccac 1980
ctcctcccta cccttctaca cacgttctct ttctccctcc cgcctccgtc ccctgctgcc 2040
ccccgccagc cctcaccacc tgccctcctt ctaccaggac ctcagaagcc cagacctggg 2100
gaccccacct acacaggggc attgacagac tggagttgaa agccgacgaa ccgacacgcg 2160
gcagagtcaa taattcaata aaaaagttac gaactttctc tgtaacttgg gtttcaataa 2220
ttatggattt ttatgaaaac ttgaaataaa aaaaaaa 2257

<210> 49
<211> 2359
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 919469CB1

<400> 49
gtgggatttg aagatccact ccacttctgc tcatggcggg ccagggcctg cccctgcacg 60
tggccacact gctgactggg ctgctggaat gcctgggctt tgctggcgtc ctctttggct 120
ggccttcact agtgtttgtc ttcaagaatg aagattactt taaggatctg tgtggaccag 180
atgctgggcc gattggcaat gccacagggc aggctgactg caaagcccag gatgagaggt 240
tctcactcat cttcaccctg gggtccttca tgaacaactt catgacattc cccactggct 300
acatctttga ccggttcaag accaccgtgg cacgcctcat agccatattt ttctacacca 360
ccgccacact catcatagcc ttcacctctg caggctcagc cgtgctgctc ttcctggcca 420
tgccaatgct caccattggg ggaatcctgt ttctcatcac caacctgcag attgggaacc 480
tatttggcca acaccgttcg accatcatca ctctgtacaa tggagcattt gactcttcct 540
cggcagtctt ccttattatt aagcttcttt atgaaaaagg catcagcctc agggcctcct 600
tcatcttcat ctctgtctgc agtacctggc atgtagcacg cactttcctc ctgatgcccc 660
gggggcacat cccataccca ctgcccccca actacagcta tggcctgtgc cctgggaatg 720
gcaccacaaa ggaagagaag gaaacagctg agcatgaaaa cagggagcta cagtcaaagg 780
agttcctttc agcgaaggaa gagaccccag gggcagggca gaagcaggaa ctccgctcct 840
tctggagcta cgctttctct cggcgctttg cctggcacct ggtgtggctg tctgtgatac 900
agttgtggca ctacctcttc attggcactc tcaactcctt gctgaccaac atggccggtg 960
gggacatggc acgagtcagc acctacacaa atgcctttgc cttcactcag ttcggagtgc 1020
tgtgtgcccc ctggaatggc ctgctcatgg accggcttaa acagaagtac cagaaggaag 1080
caagaaagac aggttcctcc actttggcgg tggccctctg ctcgacggtg ccttcgctgg 1140
ccctgacatc cctgctgtgc ctgggcttcg ccctctgtgc ctcagtcccc atcctccctc 1200
tccagtacct caccttcatc ctgcaagtga tcagccgctc cttcctctat gggagcaacg 1260
cggccttcct cacccttgct ttcccttcag agcactttgg caagctcttt gggctggtga 1320
tggccttgtc ggctgtggtg tctctgctcc agttccccat cttcaccctc atcaaaggct 1380
cccttcagaa tgacccattt tacgtgaatg tgatgttcat gcttgccatt cttctgacat 1440
tcttccaccc ctttctggta tatcgggaat gccgtacttg gaaagaaagt ccctctgcaa 1500
ttgcatagtt cagaagccct cacttttcag ccccgaggat ggttttgttc atcttccacc 1560
acctttgagg acctcgtgtc ccaaaagact ttgcctatcc cagcaaaaca cacacacaca 1620
cacacacaca cacaaaataa agacacacaa ggacgtctgc gcagcaagaa aagaatctca 1680
gttgccaagc agattgatat cacacagact caaagcaaag gcatgtggaa cttctttatt 1740
tcaaaacaga agtgtctcct tgcacttagc cttggcagac ccttgactcc aggggagatg 1800

acctggggga ggaagtgtgt caactatttc tttaggcctg tttggctccg aagcctatat 1860
gtgcctggat cctctgccac gggttaaatt ttcaggtgaa gagtgaggtt gtcatggcct 1920
cagctatgct tcctggctct ccctcaagag tgcagccttg gctagagaac tcacagctct 1980
gggaaaaaga ggagcagaca gggttccctg ggcccagtct cagcccagcc actgatgctg 2040
gatgaccttg gcctgaccct ggtctggtct cagaatcact tttcccatct gtaaaattga 2100
gatgaatttt ggtgttgaaa gttcttcctg gagcagatgt cctagaaggt tttaggaata 2160
gtgacagagt caggccaccc caagggccat gggagccagc tgacctgctt gaccgaagga 2220
tttctgacag actatctttg gggatgtttt caagaaggga tataagttat ttactttggg 2280
catttaaaag aaaatttctc tcgggaataa ttttatagaa aaataaagct tctgtgtcta 2340
aggcaaaaaa aaaaaaaaa 2359

<210> 50
<211> 2052
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 977658CB1

<400> 50
gggtttgaag ccgcgccgcg agggagcgag gtcgcagtga cagcggcggg cgatcggacc 60
caggctgccc cgccgtaccc gcctgcgtcc cgcgctcccg ccccagcatg acagccccgg 120
cgggtccgcg cggctcagag accgagcggc ttctgacccc caaccccggg tatgggaccc 180
aggcggggcc ttcaccggcc cctccgacac ccccagaaga ggaagacctt cgccgtcgtc 240
tcaaatactt tttcatgagt ccctgcgaca agtttcgagc caagggccgc aagccctgca 300
agctgatgct gcaagtggtc aagatcctgg tggtcacggt gcagctcatc ctgtttgggc 360
tcagtaatca gctggctgtg acattccggg aagagaacac catcgccttc cgacacctct 420
tcctgctggg ctactcggac ggagcggatg acaccttcgc agcctacacg cgggagcagc 480
tgtaccaggc catcttccat gctgtggacc agtacctggc gttgcctgac gtgtcactgg 540
gccggtatgc gtatgtccgt ggtgggggtg acccttggac caatggctca gggcttgctc 600
tctgccagcg gtactaccac cgaggccacg tggacccggc caacgacaca tttgacattg 660
atccgatggt ggttactgac tgcatccagg tggatccccc cgagcggccc cctccgcccc 720
ccagcgacga tctcaccctc ttggaaagca gctccagtta caagaacctc acgctcaaat 780
tccacaagct ggtcaatgtc accatccact tccggctgaa gaccattaac ctccagagcc 840
tcatcaataa tgagatcccg gactgctata ccttcagcgt cctgatcacg tttgacaaca 900
aagcacacag tgggcggatc cccatcagcc tggagaccca ggcccacatc caggagtgta 960
agcaccccag tgtcttccag cacggagaca acagcttccg gctcctgttt gacgtggtgg 1020
tcatcctcac ctgctccctg tccttcctcc tctgcgcccg ctcactcctt cgaggcttcc 1080
tgctgcagaa tgagtttgtg gggttcatgt ggcggcagcg gggacgggtc atcagcctgt 1140
gggagcggct ggaatttgtc aatggctggt acatcctgct cgtcaccagc gatgtgctca 1200
ccatctcggg caccatcatg aagatcggca tcgaggccaa gaacttggcg agctacgacg 1260
tctgcagcat cctcctgggc acctcgacgc tgctggtgtg ggtgggcgtg atccgctacc 1320
tgaccttctt ccacaactac aatatcctca tcgccacact gcgggtggcc ctgcccagcg 1380
tcatgcgctt ctgctgctgc gtggctgtca tctacctggg ctactgcttc tgtggctgga 1440
tcgtgctggg gccctatcat gtgaagttcc gctcactctc catggtgtct gagtgcctgt 1500
tctcgctcat caatggggac gacatgtttg tgacgttcgc cgccatgcag gcgcagcagg 1560
gccgcagcag cctggtgtgg ctcttctccc agctctacct ttactccttc atcagcctct 1620
tcatctacat ggtgctcagc ctcttcatcg cgctcatcac cggcgcctac gacaccatca 1680
agcatcccgg cggcgcaggc gcagaggaga gcgagctgca ggcctacatc gcacagtgcc 1740
aggacagccc cacctccggc aagttccgcc gcgggagcgg ctcggcctgc agccttctct 1800
gctgctgcgg aagggacccc tcggaggagc attcgctgct ggtgaattga ttcgacctga 1860
ctgccgttgg accgtaggcc ctggactgca gagacccccg cccccgaccc cgcttattta 1920
tttgtagggt ttgcttttaa ggatcggctc cctgtcgcgc ccgaggaggg cctggacctt 1980
tcgtgtcgga cccttggggg cggggagact gggtggggag ggtgttgaat aaaagggaaa 2040
ataaaaaaaa aa 2052

<210> 51
<211> 1939
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1004703CB1

<400> 51
cttgatggcg tcgggctgga gagccgcagt cccggctgca gcacctggga gaaggcagac 60
cgtgtgaggg ggcctgtggc ccagcgtgct gtggcctcgg ggagtgggaa gtggaggcag 120
gagccttcct tacacttcgc catgagtttc ctcatcgact ccagcatcat gattacctcc 180
cagatactat tttttggatt tgggtggctt ttcttcatgc gccaattgtt taaagactat 240
gagatacgtc agtatgttgt acaggtgatc ttctccgtga cgtttgcatt ttcttgcacc 300
atgtttgagc tcatcatctt tgaaatctta ggagtattga atagcagctc ccgttatttt 360
cactggaaaa tgaacctgtg tgtaattctg ctgatcctgg ttttcatggt gccttttttac 420
attggctatt ttattgtgag caatatccga ctactgcata aacaacgact gcttttttcc 480
tgtctcttat ggctgacctt tatgtatttc ttctggaaac taggagatct ctttcccatt 540
ctcagcccaa aacatgggat cttatccata gaacagctca tcagccgggt tggtgtgatt 600
ggagtgactc tcatggctct tctttctgga tttggtgctg tcaactgccc atacacttac 660
atgtcttact tcctcaggaa tgtgactgac acggatattc tagccctgga acggcgactg 720
ctgcaaacca tggatatgat cataagcaaa aagaaaagga tggcaatggc acggagaaca 780
atgttccaga agggggaagt gcataacaaa ccatcaggtt tctggggaat gataaaaagt 840
gttaccactt cagcatcagg aagtgaaaat cttactctta ttcaacagga agtggatgct 900
ttggaagaat taagcaggca gctttttctg gaaacagctg atctatatgc taccaaggag 960
agaatagaat actccaaaac cttcaagggg aaatatttta attttcttgg ttacttttc 1020
tctatttact gtgtttggaa aattttcatg gctaccatca atattgtttt tgatcgagtt 1080
gggaaaacgg atcctgtcac aagaggcatt gagatcactg tgaattatct gggaatccaa 1140
tttgatgtga agttttggtc ccaacacatt tccttcattc ttgttggaat aatcatcgtc 1200
acatccatca gaggattgct gatcactctt accaagttct tttatgccat ctctagcagt 1260
aagtcctcca atgtcattgt cctgctatta gcacagataa tgggcatgta ctttgtctcc 1320
tctgtgctgc tgatccgaat gagtatgcct ttagaatacc gcaccataat cactgaagtc 1380
cttggagaac tgcagttcaa cttctatcac cgttggtttg atgtgatctt cctggtcagc 1440
gctctctcta gcatactctt cctctatttg gctcacaaac aggcaccaga gaagcaaatg 1500
gcaccttgaa cttaagccta ctacagactg ttagaggcca gtggtttcaa aatttagata 1560
taagaggggg gaaaaatgga accagggcct gacattttat aaacaaacaa aatgctatgg 1620
tagcattttt caccttcata gcatactcct tccccgtcag gtgatactat gaccatgagt 1680
agcatcagcc agaacatgag agggagaact aactcaagac aatactcagc agagagcatc 1740
ccgtgtggat atgaggctgg tgtagaggcg gagaggagcc aagaaactaa aggtgaaaaa 1800
tacactggaa ctctggggca agacatgtct atggtagctg agccaaacac gtaggatttc 1860
cgttttaagg ttcacatgga aaaggttata gctttgcctt gagattgact cattaaaatc 1920
agagactgta aaaaaaaaa 1939

<210> 52
<211> 1138
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1334051CB1

<400> 52
caaactgcaa cttatatctg caatttattt tggtatagac aagaggtatg ccagtagcac 60
actggtggct tcagaagaaa ttctcaacac ctagctcgcc agagagtcta tgtatgggat 120

tgaacaatct gtaaactaaa ggatcctaat catgaaaata agtatgataa attataagtc 180
actattggca ctgttgttta tattagcctc ctggatcatt tttacagttt tccagaactc 240
cacaaaggtt tggtctgctc taaacttatc catctccctc cattactgga acaactccac 300
aaagtcctta ttccctaaaa caccactgat atcattaaag ccactaacag agactgaact 360
cagaataaag gaaatcatag agaaactaga tcagcagatc ccacccagac ctttcaccca 420
cgtgaacacc accaccagcg ccacacatag cacagccacc atcctcaacc ctcgagatac 480
gtactgcagg ggagaccagc tgcacatcct gctggaggtg agggaccact tgggacgcag 540
gaagcaatat ggcggggatt tcctgagggc caggatgtct tccccagcgc tgatggcagg 600
tgcttcagga aaggtgactg acttcaacaa cggcacctac ctggtcagct tcactctgtt 660
ctgggagggc caggtctctc tgtctctgct gctcatccac cccagtgaag ggtgtcagc 720
tctctggagt gcaaggaacc aaggctatga cagggtgatc ttcactggcc agtttgtcaa 780
tggcacttcc caagtccact ctgaatgtgg cctgatccta aacacaaatg ctgaattgtg 840
ccagtacctg gacaacagag accaagaagg cttctactgt gtgaggcctc aacacatgcc 900
ctgtgctgca ctcactcaca tgtattctaa gaacaagaaa gtttcttatc ttagcaaaca 960
agaaaagagc ctctttgaaa ggtaaaaata attacttctt gagactacct gtgcaaatat 1020
tgtgatttgg cctatatact gatccaaaga aaagtcttgt gagtgtatta atttgggtg 1080
tctttagtaa gagcctttgg ggaaaggatc tgtgaattca tttagagaca gtgcccat 1138

<210> 53
<211> 2117
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1336728CB1

<400> 53
tggccacagc aacacccact gagcacgctg ggagctgagt atggcgtccc tggtctcgct 60
ggagctgggg ctgcttctgg ctgtgctggt ggtgacggcg acggcgtccc cgcctgctgg 120
tctgctgagc ctgctcacct ctggccaggg cgctctggat caagaggctc tgggcggcct 180
gttaaatacg ctggcggacc gtgtgcactg caccaacggg ccgtgtggaa agtgcctgtc 240
tgtggaggac gccctgggcc tgggcgagcc tgaggggtca gggctgcccc cgggcccggt 300
cctggaggcc aggtacgtcg cccgcctcag tgccgccgcc gtcctgtacc tcagcaaccc 360
cgagggcacc tgtgaggaca ctcgggctgg cctctgggcc tctcatgcag accacctcct 420
ggccctgctc gagagcccca aggccctgac ccgggcctg agctggctgc tgcagaggat 480
gcaggcccgg gctgccggcc agaccccaa gacggcctgc gtagatatcc ctcagctgct 540
ggaggaggcg gtgggggcgg gggctccggg cagtgctggc ggcgtcctgg ctgccctgct 600
ggaccatgtc aggagcgggt cttgcttcca cgccttgccg agccctcagt acttcgtgga 660
ctttgtgttc cagcagcaca gcagcgaggt ccctatgacg ctggccgagc tgtcagcctt 720
gatgcagcgc ctgggggtgg gcagggaggc ccacagtgac cacagtcatc ggcacagggg 780
agccagcagc cgggaccctg tgcccctcat cagctccagc aacagctcca gtgtgtggga 840
cacggtatgc ctgagtgcca gggacgtgat ggctgcatat ggactgtcgg aacaggctgg 900
ggtgaccccg gaggcctggg cccaactgag ccctgccctg ctccaacagc agctgagtgg 960
agcctgcacc tcccagtcca ggcccccgt ccaggaccag ctcagccagt cagagaggta 1020
tctgtacggc tccctggcca cgctgctcat ctgcctctgc gcggtctttg gcctcctgct 1080
gctgacctgc actggctgca gggggtcac ccactacatc ctgcagacct tcctgagcct 1140
ggcagtgggt gcactcactg gggacgctgt cctgcatctg acgcccaagg tgctggggct 1200
gcatacacac agcgaagagg gcctcagccc acagcccacc tggcgcctcc tggctatgct 1260
ggccgggctc tacgccttct tcctgtttga gaacctcttc aatctcctgc tgcccaggga 1320
cccggaggac ctggaggacg ggccctgcgg ccacagcagc catagccacg gggccacag 1380
ccacggtgtg tccctgcagc tggcacccag cgagctccgg cagcccaagc cccccacga 1440
gggctcccgc gcagacctgg tggcggagga gagcccggag ctgctgaacc ctgagcccag 1500
gagactgagc ccagagttga ggctactgcc ctatatgatc actctgggcg acgccgtgca 1560
caacttcgcc gacgggctgg ccgtgggcgc cgccttcgcg tcctcctgga agaccgggct 1620
ggccacctcg ctggccgtgt tctgccacga gttgccacac gagctggggg acttcgccgc 1680

cttgctgcac gcggggctgt ccgtgcgcca agcactgctg ctgaacctgg cctccgcgct 1740
cacggccttc gctggtctct acgtggcact cgcggttgga gtcagcgagg agagcgaggc 1800
ctggatcctg gcagtggcca ccggcctgtt cctctacgta gcactctgcg acatgctccc 1860
ggcgatgttg aaagtacggg acccgcggcc ctggctcctc ttcctgctgc acaacgtggg 1920
cctgctgggc ggctggaccg tcctgctgct gctgtccctg tacgaggatg acatcacctt 1980
ctgataccct gccctagtcc cccacctttg acttaagatc ccacacctca caaacctaca 2040
gcccagaaac cagaagcccc tatagaggcc ccagtcccaa ctccagtaaa gacactcttg 2100
tccttggaaa aaaaaaa 2117

<210> 54
<211> 1495
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1452856CB1

<400> 54
ctgaaatccc gcgaggatca accgagctcg ccgaaaggag ggaggaacgt atcccttctg 60
gaggctgtct caggggggcag agggaccgga ccggaagtga cgtgagcggg ttccggttgt 120
ctggagccca gcggcgggtg tgagagtccg taaggagcag cttccaggat cctgagatcc 180
ggagcagccg gggtcggagc ggctcctcaa gagttactga tctatgaaat ggcagagaat 240
ggaaaaaatt gtgaccagag acgtgtagca atgaacaagg aacatcataa tggaaatttc 300
acagacccct cttcagtgaa tgaaaagaag aggagggagc gggaagaaag gcagaatatt 360
gtcctgtgga gacagccgct cattaccttg cagtattttt ctctggaaat ccttgtaatc 420
ttgaaggaat ggacctcaaa attatggcat cgtcaaagca ttgtggtgtc ttttttactg 480
ctgcttgctg tgcttatagc tacgtattat gttgaaggag tgcatcaaca gtatgtgcaa 540
cgtatagaga aacagtttct tttgtatgcc tactggatag gcttaggaat tttgtcttct 600
gttgggcttg gaacagggct gcacaccttt ctgctttatc tgggtccaca tatagcctca 660
gttacattag ctgcttatga atgcaattca gttaattttc ccgaaccacc ctatcctgat 720
cagattattt gtccagatga agagggcact gaaggaacca tttctttgtg gagtatcatc 780
tcaaaagtta ggattgaagc ctgcatgtgg ggtatcggta cagcaatcgg agagctgcct 840
ccatatttca tggccagagc agctcgcctc tcaggtgctg aaccagatga tgaagagtat 900
caggaatttg aagagatgct ggaacatgca gagtctgcac aagactttgc ctcccgggcc 960
aaactggcag ttcaaaaact agtacagaaa gttggatttt ttggaatttt ggcctgtgct 1020
tcaattccaa atcctttatt tgatctggct ggaataacgt gtggacactt tctggtacct 1080
ttttggacct tctttggtgc aaccctaatt ggaaaagcaa taataaaaat gcatatccag 1140
aaaatttttg ttataataac attcagcaag cacatagtgg agcaaatggt ggctttcatt 1200
ggtgctgtcc ccggcatagg tccatctctg cagaagccat ttcaggagta cctggaggct 1260
caacggcaga agcttcacca caaaagcgaa atgggcacac cacagggaga aaactggttg 1320
tcctggatgt ttgaaaagtt ggtcgttgtc atggtgtgtt acttcatcct atctatcatt 1380
aactccatgg cacaaagtta tgccaaacga atccagcagc ggttgaactc agaggagaaa 1440
actaaataag tagagaaagt tttaaactgc agaaattgga gtggatgggt tctgc 1495

<210> 55
<211> 1747
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1562471CB1

<400> 55
accagcagaa ggctgggagt ctgtagtttg ttcctgctgc caggctccac tgaggggaac 60

ggggacctgt ctgaagagaa gatgcccctg ctgacactct acctgctcct cttctggctc 120
tcaggctact ccattgccac tcaaatcacc ggtccaacaa cagtgaatgg cttggagcgg 180
ggctccttga ccgtgcagtg tgtttacaga tcaggctggg agacctactt gaagtggtgg 240
tgtcgaggag ctatttggcg tgactgcaag atccttgtta aaaccagtgg gtcagagcag 300
gaggtgaaga gggaccgggt gtccatcaag gacaatcaga aaaaccgcac gttcactgtg 360
accatggagg atctcatgaa aactgatgct gacacttact ggtgtggaat tgagaaaact 420
ggaaatgacc ttggggtcac agttcaagtg accattgacc cagcaccagt cacccaagaa 480
gaaactagca gctccccaac tctgaccggc caccacttgg acaacaggca caagctcctg 540
aagctcagtg tcctcctgcc cctcatcttc accatattgc tgctgctttt ggtggccgcc 600
tcactcttgg cttggaggat gatgaagtac cagcagaaag cagccgggat gtccccagag 660
caggtactgc agcccctgga gggcgacctc tgctatgcag acctgaccct gcagctggcc 720
ggaacctccc cgcgaaaggc taccacgaag ctttcctctg cccaggttga ccaggtggaa 780
gtggaatatg tcaccatggc ttccttgccg aaggaggaca tttcctatgc atctctgacc 840
ttgggtgctg aggatcagga accgacctac tgcaacatgg gccacctcag tagccacctc 900
cccggcaggg gccctgagga gcccacggaa tacagcacca tcagcaggcc ttagcctgca 960
ctccaggctc cttcttggac cccaggctgt gagcacactc ctgcctcatc gaccgtctgc 1020
cccctgctcc cctcatcagg accaacccgg ggactggtgc ctctgcctga tcagccagca 1080
ttgcccctag ctctgggttg ggcttggggc caagtctcag ggggcttcta ggagttgggg 1140
ttttctaaac gtcccctcct ctcctacata gttgaggagg gggctaggga tatgctctgg 1200
ggctttcatg ggaatgatga agatgataat gagaaaaatg ttatcattat tatcatgaag 1260
taccattatc ataatacaat gaacctttat ttattgccta ccacatgtta tgggctgaat 1320
aatggccccc aaagatatct gtgtcctaat cctcagaact tgtgactgtt accttctgtg 1380
gcagaaaggg acagtgcaga tgtatgtaag ttaaggactt tgagatagag aggttattct 1440
tgctgattca ggtgggccca aaatatcacc acaagggtcc tcataagaaa gaggccagaa 1500
ggtcaaagag gtagagacaa agtgatgatg gaagtggacg tgggtgtgac gtgagcaggg 1560
gccatgaatg ccgcagcctt cagatgccag aaagggaaag gaatggattc ccctgcctgg 1620
agcctccaaa agaaaccagc cctgcccacg ccttgacttg agcccattga aactgatctt 1680
gagctcctgg cctccagaat tgcaggagaa taaatttgtg ttgtttttaa tgaaaaaaaa 1740
aaaaaaa 1747

<210> 56
<211> 1473
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1618158CB1

<400> 56
acagcgggac agcccggcag ccttgggctt ccagcgctgg cttcatcgcc acctccctgc 60
cttctcccac ttccgcattc ttaggtgacg gatggtggca ccatcaagca aaagatcttc 120
accttcgacg ccatgttctc caccaactac tcacacatgg agaactaccg caagcgagag 180
gacctggtgt accagtccac tgtgaggctg cccgaggtcc ggatctcaga caatggtccc 240
tatgagtgcc atgtgggcat ctacgaccgc gccaccaggg agaaggtggt cctggcatca 300
ggcaacatct tcctcaacgt catggctcct cccacctcca ttgaagtggt ggctgctgac 360
acaccagccc ccttcagccg ctaccaagcc cagaacttca cgctggtctg catcgtgtct 420
ggaggaaaac cagcacccat ggtttatttc aaacgagatg gggaaccaat cgacgcagtg 480
cccctatcag agccaccagc tgcgagctcc ggcccctac aggacagcag gcccttccgc 540
agccttctgc accgtgacct ggatgacacc aagatgcaga agtcactgtc cctcctggac 600
gccgagaacc ggggtgggcg accctacacg gagcgccct cccgtggcct gaccccagat 660
cccaacatcc tcctccagcc aaccacagag aacataccag agacggtcgt gagccgtgag 720
tttccccgct gggtccacag cgccgagccc acctacttcc tgcgccacag ccgcaccccg 780
agcagtgacg gcactgtgga agtacgtgcc ctgctcacct ggaccctcaa cccacagatc 840
gacaacgagg ccctcttcag ctgcgaggtc aagcacccag ctctgtcgat gcccatgcag 900
gcagaggtca cgctggttgc ccccaaagga cccaaaattg tgatgacgcc cagcagagcc 960

cgggtagggg acacagtgag gattctggtc catgggtttc agaacgaagt cttcccggag 1020
cccatgttca cgtggacgcg ggttgggagc cgcctcctgg acggcagcgc tgagttcgac 1080
gggaaggagc tggtgctgga gcgggttccc gccgagctca atggctccat gtatcgctgc 1140
accgcccaga acccactggg ctccaccgac acgcacaccc ggctcatcgt gtttgaaaac 1200
ccaaatatcc caagaggaac ggaggactct aatggttcca ttggccccac tggtgcccgg 1260
ctcaccttgg tgctcgccct gacagtgatt ctggagctga cgtgaaggca cccgccccgg 1320
ccactccatc aggcactgac atctccacga ccggttttca tttcttttct aaactatttc 1380
cagtcttgtt cttagtctct ttccatctgt gtcttggctt cttcagtcgg tttaattaaa 1440
acaaacagaa caattttccc caaaaaaaaa aaa 1473

<210> 57
<211> 1591
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1656935CB1

<400> 57
attaaacgac tcactatagg gaatttggcc ctcgaggcaa gaattcggca cgagggcttc 60
tataggagag ctttagaatg aagtcattta gaggagcagg cgaatcctaa ccgcatctct 120
ctctttagct ggactgaacc caaacatgaa tgtcaacagc atggacatga ccggtggctt 180
gtcggtgaag gacccatccc agtcccagtc acgcctcccc cagtggacgc accccaactc 240
catggataac ttgcccagtg ccgcttcccc cctggagcag aaccctagca agcatggtgc 300
tatccctgga ggtctaagca ttgggcctcc aggtaagtcc tccattgatg actcctatgg 360
ccggtacgat ttaatccaga acagtgagtc accagccagt cctcccgtag ctgttcccca 420
tagctggtca cgtgccaaat ctgacagtga taaaatctca aatggctcta gcatcaactg 480
gcccccagaa ttccatccgg gagttccatg gaaaggactg cagaatattg accctgagaa 540
tgaccctgac gtcactcctg gcagtgtccc cactgggcct accatcaaca ccaccatcca 600
ggatgtcaac cgctacctcc tcaagagtgg agggtcctcc ccgccatcat ctcagaatgc 660
cacgctgcct tcttcgagtg cctggccact cagtgcctcc ggctacagta gctctttcag 720
cagcattgca tccgcaccta gtgttgcagg taaactgtca gacatcaaat cgacgtggtc 780
ctctggccct acctcccaca cgcaagcctc tctgtctcat gaactatgga aggtgcccag 840
aaacagtact gcacccacga ggccacctcc agggttaacc aatcccaagc cctcctccac 900
ctggggtgcc agccccctcg gctggaccag ctcctactcc tcgggttctg cctggagcac 960
cgacacctca ggaagaacca gcagctggct cgttcttcga aacctcactc cccagattga 1020
tggttctaaa ctgcggacat tgtgtttgca acatgggcct cttatcacat tccacctgaa 1080
tctgactcaa ggcaatgctg tggtccggta cagctccaag gaggagggct tgccaaaggc 1140
ccaggaagtc ctctgcacaa ttgtgcgtcc ttgggagaca cttagccatt ccttgggccc 1200
gagtttccgc ttggttggaa cgaaggaagt tggaattcgg gtttccttta agccgccaga 1260
gggcccaggc cgcattggcc agagcacaat tttccaaggt ctggcacaat tccacgacca 1320
gaggggcgtt tccaagctca caggacgtgg cgggattcac aggccacgcg ggaggggcaa 1380
ggcttctcac caacttgcac atatgagaca ttgtgaatta acattttaag agcgttgcga 1440
ctaattggga caatcatcgg acaaggaccc tgagttcaat tttgtaaagt gccctgttat 1500
aaatgtttgc cgtgtagaat aaaggtttct ttccactata tcccattgta tcgggatata 1560
tcacatcgta acagtgttat tttgggaaga a 1591

<210> 58
<211> 1858
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1859305CB1

<400> 58
gcaggcgcgg cgaaacttcc ctctacccgc ccggcccgcg gcgcgcaccg ttggcgctgg 60
acgcttcctc cttggaagcg cctctccctc aggtctcaag aactgttttg agatgcagga 120
attcatctaa ttttcactgc cgggcgaggt gtgagagccc tagcatctga aagtggtcga 180
cttgcgagtt gttatggaga aaacttgtat agatgcactt cctcttacta tgaattcttc 240
agaaaagcaa gagactgtat gtatttttgg aactggtgat tttggaagat cactgggatt 300
gaaaatgctc cagtgtggtt attctgttgt ttttggaagt cgaaaccccc agaagaccac 360
cctactgccc agtggtgcag aagtcttgag ctattcagaa gcagccaaga agtctgacat 420
cataatcata gcaatccaca gagagcatta tgattttctc acagaattaa ctgaggttct 480
caatggaaaa atattggtag acatcagcaa caacctcaaa atcaatcaat atccagaatc 540
taatgcagag taccttgctc atttggtgcc aggagcccac gtggtaaaag catttaacac 600
catctcagcc tgggctctcc agtcaggagc actggatgca agtcggcagg tgtttgtgtg 660
tggaaatgac agcaaagcca agcaaagagt gatggatatt gttcgtaatc ttggacttac 720
tccaatggat caaggatcac tcatggcagc caaagaaatt gaaaagtacc ccctgcagct 780
atttccaatg tggaggttcc ccttctattt gtctgctgtg ctgtgtgtct tcttgttttt 840
ctattgtgtt ataagagacg taatctaccc ttatgtttat gaaaagaaag ataatacatt 900
tcgtatggct atttccattc caaatcgtat ctttccaata acagcactta cactgcttgc 960
tttggtttac ctccctggtg ttattgctgc cattctacaa ctgtaccgag gcacaaaata 1020
ccgtcgattc ccagactggc ttgaccactg gatgctttgc cgaaagcagc ttggcttggt 1080
agctctggga tttgccttcc ttcatgtcct ctacacactt gtgattccta ttcgatatta 1140
tgtacgatgg agattgggaa acttaaccgt tacccaggca atactcaaga aggagaatcc 1200
atttagcacc tcctcagcct ggctcagtga ttcatatgtg gctttgggaa tacttgggtt 1260
ttttctgttt gtactcttgg gaatcacttc tttgccatct gttagcaatg cagtcaactg 1320
gagagagttc cgatttgtcc agtccaaact gggttatttg accctgatct tgtgtacagc 1380
ccacaccctg gtgtacggtg ggaagagatt cctcagccct tcaaatctca gatggtatct 1440
tcctgcagcc tacgtgttag ggcttatcat tccttgcact gtgctggtga tcaagtttgt 1500
cctaatcatg ccatgtgtag acaacaccct tacaaggatc cgccagggct gggaaaggaa 1560
ctcaaaacac tagaaaaagc attgaatgga aaatcaatat ttgaaacaaa gttcaattta 1620
gctggatttc tgaactatgg ttttgaatgt ttaaagaaga atgatgggta cagttaggaa 1680
agtttttttc ttacaccgtg actgagggaa acattgcttg tctttgagaa attgactgac 1740
atactggaag agaacaccat tttatctcag gttagtgaag aatcagtgca ggtccctgac 1800
tcttattttc ccagaggcca tggagctgag attgagacta gccttgtggt tttcacac 1858

<210> 59
<211> 1454
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1949083CB1

<400> 59
caccctggtg tcttcccctg tggccctgca aggcatatca tgcttcctgt ctctaggacc 60
tgcttactag aaagcagcac ccgcctgaaa cctcacgaag cccagaacta caggaagaag 120
gcattgtggg tgtcctggtt ctccatcatt gtcaccctgg ccctcgcggt ggctgccttt 180
actgtctccg ttatgaggta cagcgcctct gcttttgggt ttgcatttga tgccatcctg 240
gacgtcctgt catcggcgat tgtcctgtgg cgttacagca acgcggccgc tgtgcactct 300
gcccataggg agtacatagc ctgtgtcatc ttgggggtga tattccttct gtcatccata 360
tgtatagtgg tcaaagccat ccatgacctc tcaactaggc tgctcccaga agtggacgat 420
ttcctgttca gtgtctccat tttaagtggg attctttgca gcatcctggc cgtgttgaag 480
ttcatgctgg ggaaggttct gaccagtaga gcactcataa cagatgggtt taactccctc 540
gtgggtggcg tgatgggctt ctccattctt ctgagcgcgg aagtgttcaa gcatgactcg 600
gcggtctggt acctggacgg cagcataggc gttctgatcg gcctcaccat atttgcctat 660
ggggtcaaac tcctcatcga catggtgccg aaggtgaggc agacacgtca ctacgagatg 720
tttgagtgaa gggggccagc atccgcatga gaccatcgag atgaggagtt cccacatagg 780

caaagggtgc caatatttaa ctgaacatct ggtttctttt tggaagtttt ctttcacatg 840
gtttgtcatt acaagacaag gtctgcccag ccaggtggat ctaccttgcc cccatcacct 900
gccgccccca tcaaacatgt tgggacaatg cccataggaa tggacctcct tccccgtctc 960
cagctgggac tggcgttttt tagtctctgg agtatgatgg ttctcatggg taggatgaga 1020
tctttggcag aaaggtcttc ggtggtgctc tgagcctgcg ctgcatagga ctgagcagac 1080
ccacctcctc cagcttgggt ggccctgcca ctcctggttc caagtctctc ctttcctggc 1140
aggtcttaag ggaagattgt acccctcacc ctttacatac ccagaatcat cagtatgtca 1200
cttcctaatt tctatcagtg tatctcatta tttcatactg ttttactaat cctaagtcta 1260
aacagatttg ctcaaaagga gaccattcta ttttttaaag tacttagtga tacacgtata 1320
agctttgcat ggacgaatta aataagcaca ttgacctttt cttgtacatt cagaacctga 1380
acatccatgt gaaaactggg tccatttttg agagatgtga aactacagtt tatatgtaat 1440
aaataaatat aata 1454

<210> 60
<211> 2310
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1996357CB1

<400> 60
ggcccggatg ttcggtgcag ctgccagatc cgctgatcta gtgcttctcg aaaaaaacct 60
tcaggcggcc catggctgtc gatattcaac cagcatgcct tggactttat tgtgggaaga 120
ccctattatt taaaaatggc tcaactgaaa tatatggaga atgtggggta tgcccaagag 180
gacagagaac gaatgcacag aaatattgtc agccttgcac agaatctcct gaactttatg 240
attggctcta tcttggattt atggcaatgc ttcctctggt tttacattgg ttcttcattg 300
aatggtactc ggggaaaaag agttccagcg cacttttcca acacatcact gcattatttg 360
aatgcagcat ggcagctatt atcaccttac ttgtgagtga tccagttggt gttctttata 420
ttcgttcatg tcgagtattg atgctttctg actggtacac gatgctttac aacccaagtc 480
cagattacgt taccacagta cactgtactc atgaagccgt ctacccacta tataccattg 540
tatttatcta ttacgcattc tgcttggtat taatgatgct gctccgacct cttctggtga 600
agaagattgc atgtgggtta gggaaatctg atcgatttaa aagtatttat gctgcacttt 660
acttcttccc aattttaacc gtgcttcagg cagttggtgg aggcctttta tattacgcct 720
tcccatacat tatattagtg ttatctttgg ttactctggc tgtgtacatg tctgcttctg 780
aaatagagaa ctgctatgat cttctggtca gaaagaaaag acttattgtt ctcttcagcc 840
actggttact tcatgcctat ggaataatct ccatttccag agtggataaa cttgagcaag 900
atttgccccc tttggctttg gtacctacac cagccctttt ttacttgttc actgcaaaat 960
ttaccgaacc ttcaaggata ctctcagaag gagccaatgg acactgagtg tagacatgtg 1020
aaatgccaaa aacctgagaa gtgctcctaa taaaaaagta aatcaatctt aacagtgtat 1080
gagaactatt ctatcatata tgggaacaag attgtcagta tatcttaatg tttgggtttg 1140
tctttgtttt gtttatggtt agacttacag acttggaaaa tgcaaaactc tgtaatactc 1200
tgttacacag ggtaatatta tctgctacac tggaaggccg ctaggaagcc cttgcttctc 1260
tcaacagttc agctgttctt tagggcaaaa tcatgtttct gtgtacctag caatgtgttc 1320
ccatttttatt aagaaaagct ttaacacgtg taatctgcag tccttaacag tggcgtaatt 1380
gtacgtacct gttgtgtttc agtttgtttt tcacctataa tgaattgtaa aaacaaacat 1440
acttgtgggg tctgatagca aacatagaaa tgatgtatat tgtttttgt tatctattta 1500
ttttcatcaa tacagtattt tgatgtattg caaaaataga taataattta tataacaggt 1560
tttctgttta tagattggtt caagatttgt ttggattatt gttcctgtaa agaaaacaat 1620
aataaaaagc ttacctacat aaaatttcaa tgttttgaca cttaattgtt gtttggcaca 1680
atagtatgga agtaattcaa actggtaaat agtttcctct catatctcgg gtatatatac 1740
ataccatatt ttattgatcc agagatactt atttcacttt gtgacatctc tgaattagga 1800
tgcatcttac aactgatggc ttattaggtt taatgaaata cagaagatac acagtataaa 1860
aagggttttc ctgtggttgg tttgtggttt gtgataggtg ttctgtgatg tttatgcttt 1920
gaaggcctta agactcatgg ttgcaaccat ggaagcaaaa tgaaattttt agctcttaac 1980

ctaacaacct gaccatgttt atccattttt attgtttaga agtttattta ctgatacttg 2040
gtggaggttg tgtgaattag ttaaatttta aatgtttaag acttctatta acagctgcaa 2100
aatatgaaag taagtgcact cacttttcct gtagtagtct gtcttttgaa ttcacagcag 2160
ttgtatcctt gagttacttt gttaatgtat ttttctcagt acatttaacc actgggaaat 2220
gaacccttgt acgaatgtgt ttcttcttct ctgtaggaat aaaaaataaa tataaaaatt 2280
ttatttgtat tgcacacaaa aaaaaaaaaa 2310

<210> 61
<211> 744
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2061330CB1

<400> 61
agtggtgtgt tacctgccga cagcataaag cgaggcaagg tccagccgtt ccgcccggca 60
tacaagctta tggagcagcc ccctttgaag atctccaggt ggacttcaca gagatgtcaa 120
agtgtagagg tgatcgagtg tggatcaaga actggaacgt agcctctttg tgtccactgt 180
ggaaaggacc ccagactgtc gttctgagca ctcccaccgc tgtgaaggta gaaggaatcc 240
cagcctggat ccaccacagc catgtaaaac ctgcagcgcc tgaaacctgg gaggcaagac 300
caagcccaga caacccctgc agagtgaccc tgaagaagac gacaagccct gctccagtca 360
cacccggaag ctgactggtc cacgcacggc cgaagcctga ggaagctcat catgagattc 420
atttttctta aattttggac ttatacagta agggcttcaa ctgatcttac tcaaactggg 480
gactgttccc agtgtactca tcaggtcacc gaagtaggac agcaaattaa aacaatcttt 540
ctgttctata gttattatga atgtatggaa acaataaaag aaacttgttt gtataatgcc 600
actcagtaca aggtatgtag cccgagaaat gaccgacctg atgtgtgtta taacccatct 660
gagccccctg caccaccgtt tttgaaataa gaataagaac tggccttttc ctaggtgata 720
caagtaaaat aataactaga acag 744

<210> 62
<211> 1109
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2346947CB1

<220>
<221> unsure
<222> 30
<223> a, t, c, g, or other

<400> 62
gaagcagtgc agagaggaga gcggagcgcn agtgccgctg agcaaaggcc ttcaccatgg 60
ccgagtcccc cggctgctgc tccgtctggg cccgctgcct ccactgcctg tatagctgcc 120
actggaggaa atgccccaga gagaggatgc aaaccagcaa gtgcgactgt atctggtttg 180
gcctgctctt cctcaccttc ctcctttccc tgagctggct gtacatcggg ctcgtccttc 240
tcaatgacct gcacaacttc aatgaattcc tcttccgccg ctggggacac tggatggact 300
ggtccctggc attcctgctg gtcatctctc tactggtcac atatgcatcc ttgctattgg 360
tcctggccct gctcctgcgg ctttgtagac agcccctgca tctgcacagc ctccacaagg 420
tgctgctgct cctcattatg ctgcttgtgg cggctggcct tgtgggactg gacatccaat 480
ggcagcagga gtggcatagc ttgcgtgtgt cactgcaggc cacagcccca ttccttcata 540
ttggagcagc cgctggaatt gccctcctgg cctggcctgt ggctgatacc ttctaccgta 600

tccaccgaag aggtcccaag attctgctac tgctcctatt ttttggagtt gtcctggtca 660
tctacttggc ccccctatgc atctcctcac cctgcatcat ggaacccaga gacttaccac 720
ccaagcctgg gctggtggga caccgagggg cccccatgct ggctcccgag aacaccctga 780
tgtccttgcg gaagacagct gaatgcggac tactgtgttt gagactgatg tgatggtcag 840
ctccgatggg gtccccttcc tcatgcatga tgagcacctc agcaggacca cgaatgtagc 900
ctctgtattc ccaacccgaa tcacagccca cagcagtgac ttctcctgga ctgaactgaa 960
gagactcaat gctggatcct ggttcctaga gaggcgaccc ttctgggggg ccaaaccgct 1020
ggcaggccct gatcagaaag aggctgagag tcagtcggta ccagcattag aagagctatt 1080
ggaggaagct gcagccctca accctttca 1109

<210> 63
<211> 2511
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2795577CB1

<400> 63
gcagccgtcg ccttcggagc gaagggtacc gacccggcag aagctcggag ctctcggggt 60
atcgaggagg caggcccgcg ggcgcacggg cgagcgggcc gggagccgga gcggcggagg 120
agccggcagc agcggcgcgg cgggctccag gcgaggcggt cgacgctcct gaaaacttgc 180
gcgcgcgctc gcggcactgc gcccggagcg atgaagatgg tcgcgccctg gacgcggttc 240
tactccaaca gctgctgctt gtgctgccat gtccgcaccg gcaccatcct gctcggcgtc 300
tggtatctga tcatcaatgc tgtggtactg ttgattttat tgagtgccct ggctgatccg 360
gatcagtata acttttcaag ttctgaactg ggaggtgact ttgagttcat ggatgatgcc 420
aacatgtgca ttgccattgc gatttctctt ctcatgatcc tgatatgtgc tatggctact 480
tacggagcgt acaagcaacg cgcagcctgg atcatcccat tcttctgtta ccagatcttt 540
gactttgccc tgaacatgtt ggttgcaatc actgtgctta tttatccaaa ctccattcag 600
gaatacatac ggcaactgcc tcctaatttt ccctacagag atgatgtcat gtcagtgaat 660
cctacctgtt tggtccttat tattcttctg tttattagca ttatcttgac ttttaagggt 720
tacttgatta gctgtgtttg gaactgctac cgatacatca atggtaggaa ctcctctgat 780
gtcctggttt atgttaccag caatgacact acggtgctgc taccccccgta tgatgatgcc 840
actgtgaatg gtgctgccaa ggagccaccg ccaccttacg tgtctgccta agccttcaag 900
tgggcggagc tgagggcagc agcttgactt tgcagacatc tgagcaatag ttctgttatt 960
tcacttttgc catgagcctc tctgagcttg tttgttgctg aaatgctact tttaaaatt 1020
tagatgttag attgaaaact gtagttttca acatatgctt tgctggaaca ctgtgataga 1080
ttaactgtag aattcttcct gtacgattgg ggatataatg ggcttcacta accttcccta 1140
ggcattgaaa cttcccccaa atctgatgga cctagaagtc tgcttttgta cctgctgggc 1200
cccaaagttg ggcatttttc tctctgttcc ctctcttttg aaaatgtaaa ataaaaccaa 1260
aaatagacaa ctttttcttc agccattcca gcatagagaa caaaacctta tggaaacagg 1320
aatgtcaatt gtgtaatcat tgttctaatt aggtaaatag aagtccttat gtatgtgtta 1380
caagaatttc ccccacaaca tcctttatga ctgaagttca atgacagttt gtgtttggtg 1440
gtaaaggatt ttctccatgg cctgaattaa gaccattaga aagcaccagg ccgtgggagc 1500
agtgaccatc tgctgactgt tcttgtggat cttgtgtcca gggacatggg gtgacatgcc 1560
tcgtatgtgt tagagggtgg aatggatgtg tttggcgctg catgggatct ggtgcccctc 1620
ttctcctgga ttcacatccc cacccagggc ccgcttttac taagtgttct gccctagatt 1680
ggttcaagga ggtcatccaa ctgactttat caagtggaat tgggatatat ttgatatact 1740
tctgcctaac aacatggaaa agggttttct tttccctgca agctacatcc tactgctttg 1800
aacttccaag tatgtctagt caccttttaa aatgtaaaca ttttcagaaa aatgaggatt 1860
gccttccttg tatgcgcttt ttaccttgac tacctgaatt gcaagggatt tttatatatt 1920
catatgttac aaagtcagca actctcctgt tggttcatta ttgaatgtgc tgtaaattaa 1980
gtcgtttgca attaaaacaa ggtttgccca caaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2040
aaaaaaaaaa aaaaaaaaca caatacgaaa caacaagaac agcaagaatc aaaaagctta 2100
aaatcctcga gtgcacaatg aagaaaacag gggggcgccc ctctaggggt cccagtttcg 2160

gtcggggtga ttggggggac tgagcccttc ctatagggac cccctaattc tgatttcagg 2220
ggcggggcgg tttttaaaaa gcgcggttaa cgggggaaac acccctgggg gttatccccc 2280
ctcttttaag cggcgtgttg gtgggaaaga caccgccctt ttttgcgccc aagtgggggc 2340
atatatctcc ccggtgaggg cgccctctac ccgatatctg gcctttcccc agaagttttg 2400
cccgcgccct ctactttggg gactttgggt gccgccacct ttattaaggg ggcgtttata 2460
ccagcggcgg gggtttgtgg gcgtcctcgc gcgggaggcc cgctccaccc t 2511

<210> 64
<211> 788
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3255825CB1

<400> 64
cccacgcgtc cgcagctgcg tcctctgggc cacgctccac ttgcccgctt ccacccggaa 60
agcccccccag gctgagtgcg gcatgatctc catcaccgaa tggcagaaga ttggtgtggg 120
gatcaccggt ttcggcatct tcttcatcct ctttggaaca ctcctgtact ttgattccgt 180
gctcctggcc tttggaaacc tgctgttcct gacgggcctg tccctcatca ttggcctgag 240
gaagaccttt tggttcttct tccaacggca caaactcaag ggaaccagct tcctcctggg 300
gggtgtggtt atcgtgctcc tacgctggcc cctcctcggc atgttcctgg aaacctacgg 360
attcttcagc ctctttaagg gcttttttccc tgtcgccttc ggttcctggg caatgtctgc 420
aacatcccct tcctgggtgc gctgttccgg agacttcaag gcactagctc gatggtctga 480
aaaacagaga tgagctcctt gaacttggat cattggttga gggggctaga gggagaatgg 540
gaaccacccc ctcagtcccc tgcactgact cactccccga catatccgga cctccccaag 600
tccagaagga aggaatggag ctgagcaact gacgtcaaat ccccaagtcg actcaagagg 660
ctgccaggaa gcagagatgc agaccccaag gagactgggc tggggctggt atcacaccct 720
cactctatat ttatgggagg aaaagtgaag attaaattcc caagttgtgc gtgtgtctaa 780
aaaaaaaa 788

<210> 65
<211> 1831
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3393430CB1

<400> 65
gccttataaa gtagcctctg catctgcctg cctcgggcag aggagggcta ccctggggct 60
gagagttcac ctgtctcagg aaccacctga gcccacagat cctgtgggca gcggccaggg 120
cagccatggc ttgggcaagt aggctgggcc tgctgctggc actgctgctg cccgtggtcg 180
gtgcctccac gccaggcacc gtggtccgac tcaacaaggc agcattgagc tacgtgtctg 240
aaattgggaa agcccctctc cagcgggccc tgcaggtcac tgtcctcat ttcctggact 300
ggagtggaga ggcgcttcag cccaccagga tccggattct gaatgtccat gtgccccgcc 360
tccacctgaa attcattgct ggtttcggag tgcgcctgct ggcagcagct aattttactt 420
tcaaggtctt tcgcgcccca gagcccctgg agctgacgct gcctgtggaa ctgctggctg 480
acacccgcgt gacccagagc tccatcagga cccctgtggt cagcatctct gcctgctctt 540
tattctcggg ccacgccaac gagtttgatg gcagtaacag cacctcccac gcgctgctgg 600
tcctggtgca gaagcacatt aaagctgtct tgagtaacaa gctgtgcctg agcatctcca 660
acctggtgca gggtgtcaat gtccacctgg gcaccttaat tggcctcaac cccgtgggtc 720
ctgagtccca gatccgctat tccatggtca gtgtgcccac tgtcaccagt gactacattt 780
ccctggaagt caatgctgtt ctcttcctgc tgggcaagcc catcatcctg cccacggatg 840

ccacccctttt tgtgttgcca aggcatgtgg gtaccgaggg ctccatggcc accgtgggcc 900
tctcccagca gctgtttgac tctgcgctcc tgctgctgca gaaggccggt gccctcaacc 960
tggacatcac agggcagctg aggtcggatg acaacctgct gaacacctct gctctgggcc 1020
ggctcatccc ggaggtggcc cgccagtttc ccgagcccat gcctgtggtg ctcaaggtgc 1080
ggctgggtgc cacacctgtg gccatgctcc acacaaacaa cgccaccctg cggctgcagc 1140
ccttcgtgga ggtcctggcc acagcctcca actcggcttt ccagtccctc ttctccctgg 1200
atgtggtagt gaacttgaga ctccagctct ctgtgtccaa ggtgaagctt caggggacca 1260
cgtctgtgct gggggatgtc cagctcacgg tggcctcctc caacgtgggc ttcattgata 1320
cagatcaggt gcgcacactg atgggcaccg tttttgagaa gcccctgctg gaccatctca 1380
atgctctctt ggccatggga attgccctcc ctggtgtggt caacctccac tatgtcgccc 1440
ctgagatctt tgtctatgag ggctacgtgg tgatatccag tggactcttc taccagagct 1500
gaggcaagac cactgggagg cctgagagtg ggccagctcg ctgctcaggc gaatttctca 1560
tttcaagcca ctggggaaac tgaggcaaaa ccatacttag tcatcaccaa caagctggac 1620
tgcttagctg ggctgtttta tcttccctga gtgcctgggt ctccctccct cacttctgcc 1680
ctttcccttc ctcctcctct tctcctccct cttccctcat ctccccccctc cttcctctgc 1740
cccaccccag gggggagcag actgctcctc caggctgtat agacctgccc tcttgcatta 1800
aacaacttct cttgagctgc aaaaaaaaaa a 1831

<210> 66
<211> 1499
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3490990CB1

<400> 66
tgtttgagtt gggtgaagaa ggcgggaagt taatcctctt ccaatcagct ccccatctcg 60
ccctctggcg gctccggacc acaggccgag ttactctgat taccgccatg ctccaagacc 120
cgcactgaca gtccccacct cccgttctct gtcatcggtt ccctcaatgg agtccacatg 180
tttgggcaga atctggaggt gcagctgagc tctgcgagga ccgagaacac gactgtggtg 240
tggaaaagct tccatgacag catcaccctc attgttctgt catctgaggt gggcatctct 300
gagctgaggc tggagagact actccaaatg gtgtttggag ccatggtcct tcttgtggga 360
cttgaagaac tgaccaatat ccgcaacgtg gagagactga agaaggactt gagggccagt 420
tattgcctca tcgacagctt cctgggggac tcggagctca tcggggacct gacccagtgt 480
gtggactgcg tgattcctcc agaggggtcc ctcttgcagg aagccctctc cgggttcgct 540
gaggccgcgg gcacgacctt cgtcagtctg gtggtgtccg gccgggtggt ggcagcaaca 600
gagggttggt ggcggctggg gacgcccgag gccgtgctgc tcccctggct ggtggggtcc 660
ctgccgccgc agaccgctcg cgactacccg gtgtacctac cgcacgggag ccccacggtc 720
ccacaccggc tcctgaccct gactctgctg ccgagcctgg agctgtgtct actctgcggg 780
ccgagcccac ccctcagcca gttgtatcca cagcttctgg agcgctggtg gcagccactg 840
ctggacccgt tgcgggcctg tctgccgttg ggaccccggg cgctgcccag tggcttcccc 900
cttcacacag acatcctcgg gctgctgctc ctccacctgg aactgaagcg ctgcctcttc 960
accgtggagc ccttggggga taaagagcct tcaccagaac agcgccggcg cctcctccga 1020
aacttctata ccctggtcac ctccacgcac ttcccaccag agccagggcc accagagaag 1080
acagaagatg aggtctacca ggcccagctg cccagagctt gctacctggt gttggggact 1140
gaggaaccag gcacaggagt gcgtctggtg gccttgcagc tggggcttcg gcggctgctg 1200
ctgctgctgt ctccccagag tcccacccat gggctgcgaa gcctggccac ccacactctg 1260
catgccctca ccccacttct ttgactacct agcagtgggt gatggacaca gacatggggc 1320
tgttagcgtc tctctgttta ttcgctcaca ataatacaca gcccctggat ggggaggggg 1380
taggaggggc tacaacaggg tggggtggga ggggaggaga catccacttc cctggcccct 1440
ctcccctctg tgcttgggggg ggaaagggag ggagggggac tccccctaac cccccagaa 1499

<210> 67
<211> 365

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3635154CB1

<400> 67
gttttttgc actaacttca ggagccagct cgtgatctca ggatgtatgg aaaaataatc 60
tttgtattac tattgtcaga aattgtgagc atatcagcat caagtaccac tggtgtggca 120
atgcacactt caacctcttc ttcagtcaca aagagttaca tctcatcaca gacaaatgga 180
gaaacgggac aacttgtcca tcgtttcact gtaccagctc ctgtagtgat aatactcatt 240
attttgtgtg tgatggctgg tattattgga acgatcctct tattttctta cagttttcgc 300
cgactgataa agggctgagg gtgtagcctg catgctgccg atcttgctct gaaccggccg 360
cattg 365

<210> 68
<211> 1102
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4374347CB1

<400> 68
gaggacagag caggcagcag agaccatggg gccccctca gcttgtcccc acagagaatg 60
catcccctgg caggggctct tgctcacagc ctcacttta actttctgga acgcacccac 120
cactgcctgg ctctttattg catcagcgcc ctttgaagtt gctgaagggg agaatgttca 180
tctctctgtg gtttatctgc ccgagaatct ttacagctat ggctggtaca aagggaaaac 240
ggtggagccc aaccagctaa tcgcagcata tgtaatagac actcacgtta ggactccagg 300
gcctgcatac agcggtcgag agacaatatc acccagtgga gatctgcatt tccagaacgt 360
caccctagag gacacgggat actacaacct acaagtcaca tacagaaatt ctcagattga 420
acaggcatct caccatctcc gtgtatacga gtcagtggct cagccctcca tccaagccag 480
cagcaccaca gtcacagaga agggctccgt ggtcctgacc tgccacacaa ataacactgg 540
aacctctttc cagtggattt tcaacaacca gcgtctgcag gtcacgaaga ggatgaagct 600
gtcctggttt aaccatgtgc tcaccataga ccccatcagg caggaggacg ctggggagta 660
tcagtgtgag gtctccaacc cagtcagctc caacaggagc gacccctca agctgactgt 720
aaaatatgac aacactctag gcatcctgat cggggtcctg gttgggagtc ttctggtggc 780
tgcacttgtg tgtttcctgc tcctccgaaa aactggcagg gccagcgatc agagtgactt 840
cagggagcag cagcccccag cctccacccc cggccatgga ccctctgaca gctctgacag 900
ctccatctcc taggaattgc tacactctga cacaaacatt tactgctgga tcgaccacaa 960
agcagatgtg gcttcttagg ttcctctggg agctgctcct gtgggttgat ggagcgtccc 1020
tgaagccccc agccctgggg atggggaagg acatggagcc tgagccagag aaccagctct 1080
gagtcctgag gagacacagg cc 1102

<210> 69
<211> 2546
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4596747CB1

<400> 69

cccggggcgc gcccaccgcg ccgcatccat gttcgacacc acaccccact ctggccggag 60
cacgccaagc agctccccat cgctccggaa acggctgcag ctcctgcccc caagccggcc 120
cccacctgag ccagaaccag gcaccatggt ggagaaggga tcagatagct cctcagagaa 180
gggtggggtg cctgggaccc ccagcaccca gagcctaggc agccggaact tcatccgcaa 240
cagcaagaag atgcagagct ggtacagtat gctgagcccc acttataagc agcgtaatga 300
ggacttccgg aaactgttca gcaaactccc cgaagcagaa cgcctcattg tggattactc 360
ctgcgccctg cagcgtgaga tcctgctcca gggccgcctc tacctctctg agaactggat 420
ctgcttctac agcaacatct tccgctggga gaccacgatc tccatccagc tgaaggaagt 480
gacatgtctg aagaaggaaa agacggccaa gctgatcccc aacgccatcc agatctgcac 540
ggagagcgag aagcatttct tcacttcctt tggggcccgt gaccgctgct tcctcctcat 600
cttccgcctc tggcagaatg cactgcttga aaagacgctg agtccccgcg agctctggca 660
cctggtgcat cagtgctacg gctcagagct gggcctcacc agtgaggatg aggactatgt 720
ctccccttg cagctgaacg gtctggggac ccccaaggaa gtgggagatg tgatcgccct 780
gagcgacatc acctcctcgg gggcagctga ccgcagccag gagccaagcc cagtgggttc 840
gcgccgtggc catgtcacgc ccaacctttc ccgagccagc agcgacgcag accatggggc 900
agaggaggac aaggaggagc aggtagacag ccagccagac gcctcctcca gccagacagt 960
gaccccggtg gctgaacccc cgagcacaga gcccacccag cctgacgggc ccaccaccct 1020
gggccccttg gatctgctgc ccagtgagga gctattgaca gacacaagta actcctcttc 1080
atccactggg gaggaagcgg acttggctgc cctgcttccc gacctctccg gccgcctcct 1140
catcaactct gtcttccatg tgggcgctga gcggctccag cagatgctct tctcggactc 1200
gcccttcctc cagggcttcc tacagcagtg caagttcaca gacgtgacgc tgagcccctg 1260
gagtggggac agcaagtgcc accagcgccg ggtgctgacg tacaccatcc ccatcagcaa 1320
cccactgggc cccaagagcg cctccgtggt ggagacacag acgctgttcc ggcgcggccc 1380
ccaggccggc gggtgtgtgg tggactccga ggtgctgacg cagggcatcc cctaccagga 1440
ctacttctac actgcccacc gctactgcat cctgggtctg gcccggaaca aggcgcggct 1500
ccgagtgtct tctgagatcc gctaccgaaa gcagccgtgg agcctggtga agtcgctcat 1560
tgagaagaac tcgtggagcg gcattgaaga ctatttccac catctggagc gagagctcgc 1620
caaggctgag aagctgtctc tggaggaagg cgggaaggat gcccggggct tgctatccgg 1680
cctgcggcgg cggaagcggc ccctgagctg gcgggctcac ggggacgggc cccagcaccc 1740
agatcctgac ccctgtgccc gggccggcat tcacacctcg ggctccctca gctcccgctt 1800
ctccgaacca tctgtggacc agggccccgg ggcaggcatc cccagtgccc tggttctcat 1860
cagcattgtg atctgtgtga gccttatcat cctcatcgcc ctcaacgtcc tgctcttcta 1920
ccgcctctgg tccctggaaa ggacagccca cacctttgag tcctggcaca gcctggccct 1980
ggccaagggc aagttccccc agacggccac agagtgggcc gagatcctgg cgctgcagaa 2040
gcaattccac agcgtggagg tgcacaagtg gaggcagatc ctgcgggcct ccgtggagct 2100
cctggatgag atgaagttct cgctggagaa gctgcaccaa ggcatcacag tctcagaccc 2160
tccctttgac acccagcccc ggcccgatga cagcttttcc tgaggacccc ggccacgcag 2220
ctgttccccc acatggacag atggacacac agagcctcgg cggccactgc tggcacggtg 2280
tgagcgccag gcatctccca cccgcccctc ccgacggccc aaccaggggc tgtgcagacg 2340
tggggaccac ggaaccgaga tgcactttag accagggagc tggcccggcc tctggcaggc 2400
cccccactaa cttattttgc ccggctgagg ttgtgggggg cgcctcctgg ggtgcacgat 2460
tccctcagct ctgggtttaa tgtattatat ttatttgggg ccgacagtgc cccaataaag 2520
ggtcagaagt gaaaaataaa aaaaaa 2546

<210> 70
<211> 1845
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5052680CB1

<400> 70
ctctggcgga ctgcctggcg gaagcgggaa cgtcgcatcc tgaggtaaag gtgcacggca 60
tcctgggaca tgtagtctgg ccggggctcg gacgcccccc cggatgaatg ggaccgaagc 120

tgactgcgaa ctacagcttc ttggcagcgt cggtgttggc cgcgggagaa ggggagaccg 180
cggcggcccc cagtgagagc ggctttccag gacggtgcga tgtgctgcgc agcgaagagg 240
caggaggccg gcttcctggg gtagcggtac aggcgggcgc ttactctgtg cgcttgcttc 300
cccaaccctg caccggccat gcgcccggcc ttggcggtgg gcctggtgtt cgcaggctgc 360
tgcagtaacg tgatcttcct agagctcctg gcccggaagc atccaggatg tgggaacatt 420
gtgacatttg cacaattttt atttattgct gtggaaggct tcctctttga agctgatttg 480
ggaaggaagc caccagctat cccaataagg tactatgcca taatggtgac catgttcttc 540
accgtgagcg tggtgaacaa ctatgccctg aatctcaaca ttgccatgcc cctgcatatg 600
atatttagat ccggttctct aattgccaac atgattctag gaattatcat tttgaagaaa 660
agatacagta tattcaaata tacctccatt gccctggtgt ctgtggggat atttatttgc 720
acttttatgt cagcaaagca ggtgacttcc cagtccagct tgagtgagaa tgatggattc 780
caggcatttg tgtggtggtt actaggtatt ggggcattga cttttgctct tctgatgtca 840
gcaaggatgg ggatattcca agagactctc tacaaacgat ttgggaaaca ctccaaggag 900
gctttgtttt ataatcacgc ccttccactt ccgggtttcg tcttcttggc ttctgatatt 960
tatgaccatg cagttctatt caataagtct gagttatatg aaattcccgt catcggagtg 1020
accctgccca tcatgtggtt ctacctcctc atgaacatca tcactcagta cgtgtgcatc 1080
cggggtgtgt ttatcctcac cacggaatgc gcctccctca ccgtcacgct cgtcgtgacc 1140
ctacgcaaat ttgtgagcct catcttttcc atcttgtact tccagaaccc cttcaccctg 1200
tggcactggc tgggcacctt gtttgtcttc attgggacct taatgtacac agaggtgtgg 1260
aacaacctag ggaccacaaa aagtgagcct cagaaggaca gcaagaagaa ctgaggcctg 1320
tctggagtac gtagaccagt gtcgtcgtga gggtgggacc ctgtgaaggt ctgaccaccg 1380
tttcgctttt gttaatgccg agctacccgc agtgctgagc cagccgtgca aaaggaaatc 1440
ttcaggaggg gacttctcac gttgctcaga ctgacacatg tagactaaat agaaacccct 1500
cagccctaaa atagaaaaaa gaacaggtct agactattga acaggcgatt catttatttc 1560
tgttttgttt accgacatat tcagtattat tcttgttttc tgaattctga gtctcctgaa 1620
caaaaggctt actatccatg gtcttggaaa agattgtccc ttctcttgct gttgtaatgc 1680
atctctgcta cagcagtcat tgtcatcctg tgaccttatc ccttttgtct cccatcacct 1740
tttccttctt cagcagcacc tcacagtcag tcagacgctg caggcaccac tatcaccagg 1800
agtggccaag taaaccgaga caccagtaac agcagggtgg acttc 1845

<210> 71
<211> 1940
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5373575CB1

<400> 71
gtctcctgtc aaaagccatg ctcggcaggt ctgggtaccg ggcgctgccc ctgggtgatt 60
ttgaccgctt ccagcagtcg agcttcggct ttctgggctc gcagaagggc tgcttgtccc 120
cggagcgggg cggcgtgggg acaggggccg atgtacccca gagctggccc tcctgcctct 180
gtcatggcct catcagtttc ctggggttct tgctgctgtt ggtcaccttc cccatttctg 240
gctggtttgc cctgaagatt gtgcccacct acgagcggat gattgtgttc cgcctgggcc 300
ggatccgcac cccccaggga cctggcatgg ttctgctctt gcccttcatt gactcctttc 360
agagggtgga tctgaggaca cgagccttca acgtccctcc ctgcaagctg gcctctaagg 420
acggggctgt gctgtccgtg ggagccgatg tccagtttcg catctgggac ccggtgctgt 480
cggtgatgac tgtgaaagac ctgaacacag ccacacgcat gacagcccag aacgccatga 540
ccaaggccct gctcaagagg ccgctgcggg agatccagat ggagaagctc aagatcagcg 600
accagcttct gctggagatc aacgatgtga ccagggcctg gggctggag gtagaccgcg 660
tggagctggc agtggaggcc gtgctccagc cgccccagga cagcccagct gggcccaacc 720
tggacagcac cctccagcag ctggccctgc acttcctggg aggaagcatg aactcaatgg 780
caggaggtgc cccgtccccg gggccagcag acaccgtgga gatggtgagt gaagttgagc 840
cacctgcccc tcaagttggt gccaggtcca gtccgaagca gcctctggcg gaggggctac 900
tgactgctct acagcccttc ctgtctgagg ccctggtcag ccaagtcggg gcctgctacc 960

agttcaatgt cgtcctgccc agcggcaccc aaagcgccta cttcctggac ctcactacag 1020
gacgaggaag agtgggacac ggggtgcctg atggcatccc tgatgtggtg gtggagatgg 1080
ccgaggcaga cctgcgggcc ctgctatgca gagagctgcg gcccctgggg gcctacatga 1140
gtggacggct gaaggtgaag ggcgacctgg ctatggccat gaagctggag gctgtcctca 1200
gggccttgaa gtagcagcct tggctgactt tccagagccc agtcccaagc ctggcaccaa 1260
gcccgagggg cctcttggag gaggaggtgt tcatctgcac cacagagagt tgaggcccta 1320
acaaatttca ggcccagcca agagcccatg aatggaggct gcaggaggct gagtccggct 1380
gccatgcacg tctcccctac agtggttctc tggacaaggc tttgtccatc ccggtcccca 1440
gctgagtgcc cagcgctgag ctgggtgcac ggtgtgattc caggaggaga gccaggcctg 1500
ccctgccctg ctggcttcct gactggagag acaggaccca cagaaacagc ctgacagcag 1560
ctggtttggt ccttgtgtga gggaccaagc atgtggccca ggctctaagc tctgcgggga 1620
ttggagaggg atggggaggg aagggaaggc agctccaaga agaggtccct gtggcgaagt 1680
tacctgggga tcctggctgg cccaccttcc tggctgcagt ccaggcccgt gctggcggga 1740
ttgggcatgg gaaggagcag ggcctgctgc ttccctggcg ctgctcccaa agatttctga 1800
ctcatctgcc agctctgtcc tgcatgcctg gcgagctggg gcccagggca gcatgaagga 1860
gagccctgcg ttctgtgctt cttaccagag gtttgcaagc ctcagacaaa taaatgtggt 1920
gtttacaatg taaaaaaaaa 1940

<210> 72
<211> 880
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5524468CB1

<400> 72
gcgaagccga agggagcgcg gctaagagtg ccgcaccgcc tcacaacctg ggaaccggag 60
agtaggggcc gtcggctggc aagaacccgc cgtgcctcct cggcaagggc catccggtgc 120
cacccatgtc gcactagagc agaagagggt gagtcctgga actgcaacct gcacagagct 180
gctctgtact gtccctggtg gtcgccgcca tgacctggtt ggtgctgctg gggacactgc 240
tctgcatgct gcgcgttggg ttaggcaccc cggactccga gggtttcccg ccccgtgcgc 300
tccacaactg cccctacaaa tgtatctgcg ctgccgacct gctaagctgc actggcctag 360
ggctgcagga cgtgccagcc gagttacctg ccgctactgc ggacctcgac ctgagccaca 420
acgcgctcca gcgcctgcgc cccggctggt tggcgccccc cttccagctg cgcgccctgc 480
acctagacca caacgaacta gatgcgctgg gtcgcggcgt cttcgtcaac gccagcggcc 540
tgaggctgct cgatctatca tctaacacgt tgcgggcgct tggccgccac gacctcgacg 600
ggctgggggc gctggagaag ctgcttctgt tcaataaccg cttggtgcac ttggacgagc 660
atgccttcca cggcctgcgc gcgctcagcc atctctacct gggctgcaac gaactcgcct 720
cgttctcctt cgaccacctg cacggtctga gcgccaccca cctgcttact ctggacctct 780
cctccaaccg gctgggacac atctccgtac ctgagctggc cgcgctgccg gccttcctca 840
agaacggcct ctacctgcac gacaacacat aaaaaaaaaa 880

<210> 73
<211> 2403
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5944279CB1

<400> 73
agccacctgc tggccaggta ccctccctt acctggggca gtgtctgcct ggtggccact 60
agagacagcc cagcctgggc catggaagaa aacccgacct tggaatcaga agcctggggc 120

tcctctaggg ggtggctggc cccccgggag gccagaggag gcccatcgct gtcttctgtg 180
ctgaacgagc tgcccagtgc tgccaccctt cggtaccgag accctggggt gctgccttgg 240
ggggcgctgg aggaggagga ggaggatgga ggaaggagca gaaaggcctt cacagaagtc 300
acccagacag agctgcagga ccctcaccct tcccgggaac tgccctggcc catgcaggcc 360
agacgggcac acaggcaaag aaatgccagc agggaccagg tggtctatgg ctctggaact 420
aagacggacc gatgggcgcg gctacttcgg aggtccaagg agaaaacaaa ggaaggcttg 480
cgaagcctgc agccctgggc gtggacactg aagaggatcg ggggccagtt tggcgccggc 540
acggagtcct acttctccct gctgcgcttc ctgctccttc ttaacgtgct ggcctctgtg 600
ctcatggcct gcatgacgct gctgcccacc tggttgggag gcgctccccc aggccctccc 660
ggccccgaca tctcctcgcc ctgcggctcc tataacccca actcccaggg cctggtcacc 720
tttgccaccc agctcttcaa cttgctctcg ggtgagggtt acctggaatg gtcccctctc 780
ttctatggct tctacccgcc ccgcccacgc ctggcggtca cctacctgtg ctgggccttt 840
gccgttggcc tcatctgcct cctgctcatc ctgcatcgct cggtgtctgg gctgaagcag 900
acactgctgg cggagtccga ggctctgacc agctacagcc accgggtgtt ctcggcctgg 960
gacttcggtc tctgcgggga cgtccacgtg cggctgcgcc agcgcatcat cttgtacgaa 1020
ttaaaggtgg agctggagga gacagtggtg cggcgccagg ctgcggtgcg gacgctgggc 1080
cagcaagcca gggtttggtt ggtgcgggtg ctgctcaacc tgctggtggt cgcgctcctg 1140
ggggcagcct tctatggcgt ctactgggct acggggtgca ccgtggagct gcaggagatg 1200
ccccttgtcc aggagttgcc actgctgaag cttggggtga attaccttcc gtccatcttc 1260
atcgctgggg tcaattttgt gctgccgccc gtgttcaagc tcattgctcc actggagggc 1320
tacactcgga gtcgccagat cgtttttatc ctgctcagga ccgtgtttct tcgcctcgcc 1380
tccctggtgg tcctgctctt ctctctctgg aatcagatca cttgtggggg cgactccgag 1440
gctgaggact gcaaaacctg tggctacaat tacaaacaac ttccgtgctg ggagactgtc 1500
ctgggccagg aaatgtacaa acttctgctc tttgatctgc tgactgtctt ggcagtcgcg 1560
ctgctcatcc agtttcctag aaagctcctc tgtggcctct gtcctggggc gctgggtcgt 1620
ctggcgggga cccaggagtt ccaggtgccc gacgaggtgc tggggctcat ctacgcgcag 1680
acggtggtct gggtggggag ttttttctgc cctttactgc ccctgcttaa cacggtcaag 1740
ttcctgctgc ttttctacct gaagaagctt accctcttct ccacctgctc cccggctgcc 1800
cgcaccttcc gggcctccgc ggcgaatttc tttttccccc tggtccttct cctgggtctg 1860
gccatctcca gcgttccccc gctttacagc atcttcctga tcccgccttc taagctttgt 1920
ggtccattcc gggggcagtc gtccatctgg gcccagatcc ctgagtctat ttccagcctc 1980
cctgagacca cccagaattt cctcttcttc ctggggaccc aggcttttgc tgtgcccctt 2040
ctgctgatct ccagcatcct gatggcgtac actgtggctc tggctaactc ctacggacgc 2100
ctcatctctg agctcaaacg tcagagacag acggaggcgc agaataaagt cttcctggca 2160
cggcgcgctg tggcgctgac ctccaccaaa ccggctcttt gacccccgca gcccacgtcc 2220
cgctttcaga ccccaggccc attgtaagcc taggtcacaa catctgtaaa ctaggagaac 2280
tggagaagac tccacgccct tccagctttg gtatctggag atttccaggg cccctcgccg 2340
ccacgtccct gactctcggg tgatcttcct tgtatcaata aatacagccg aggttggtga 2400
gcc 2403

<210> 74
<211> 2850
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 6114480CB1

<400> 74
cggctcgagc ggctcgagtg aagagcctct ccacggctcc tgcgcctgag acagctggcc 60
tgacctccaa atcatccatc cacccctgct gtcatctgtt ttcatagtgt gagatcaacc 120
cacaggaata tccatggctt ttgtgctcat tttggttctc agtttctacg agctggtgtc 180
aggacagtgg caagtcactg gaccgggcaa gtttgtccag gccttggtgg gggaggacgc 240
cgtgttctcc tgctcccctct ttcctgagac cagtgcagag gctatggaag tgcggttctt 300
caggaatcag ttccatgctg tggtccacct ctacagagat ggggaagact gggaatctaa 360

gcagatgcca cagtatcgag ggagaactga gtttgtgaag gactccattg caggggggcg 420
tgtctctcta aggctaaaaa acatcactcc ctcggacatc ggcctgtatg ggtgctggtt 480
cagttcccag atttacgatg aggaggccac ctgggagctg cgggtggcag cactgggctc 540
acttcctctc atttccatcg tgggatatgt tgacggaggt atccagttac tctgcctgtc 600
ctcaggctgg ttcccccagc ccacagccaa gtggaaaggt ccacaaggac aggatttgtc 660
ttcagactcc agagcaaatg cagatgggta cagcctgtat gatgtggaga tctccattat 720
agtccaggaa aatgctggga gcatattgtg ttccatccac cttgctgagc agagtcatga 780
ggtggaatcc aaggtattga taggagagac gtttttccag ccctcacctt ggcgcctggc 840
ttctatttta ctcgggttac tctgtggtgc cctgtgtggt gttgtcatgg ggatgataat 900
tgttttcttc aaatccaaag ggaaaatcca ggcggaactg gactggagaa gaaagcacgg 960
acaggcagaa ttgagagacg cccggaaaca cgcagtggag gtgactctgg atccagagac 1020
ggctcacccg aagctctgcg tttctgatct gaaaactgta acccatagaa aagctcccca 1080
ggaggtgcct cactctgaga agagatttac aaggaagagt gtggtggctt ctcagggttt 1140
ccaagcaggg agacattact gggaggtgga cgtgggacaa aatgtagggt ggtatgtggg 1200
agtgtgtcgg gatgacgtag acaggggggaa gaacaatgtg actttgtctc ccaacaatgg 1260
gtattgggtc ctcagactga caacagaaca tttgtatttc acattcaatc cccattttat 1320
cagcctcccc cccagcaccc ctcctacacg agtaggggtc ttcctggact atgagggtgg 1380
gaccatctcc ttcttcaata caaatgacca gtcccttatt tataccctgc tgacatgtca 1440
gtttgaaggc ttgttgagac cctatatcca gcatgcgatg tatgacgagg aaaaggggac 1500
tcccatattc atatgtccag tgtcctgggg atgagacaga gaagaccctg cttaaagggc 1560
cccacaccac agacccagac acagccaagg gagagtgctc ccgacaggtg gccccagctt 1620
cctctccgga gcctgcgcac agagagtcac gccccccact ctcctttagg gagctgaggt 1680
tcttctgccc tgagccctgc agcagcggca gtcacagctt ccagatgagg ggggattggc 1740
ctgaccctgt gggagtcaga agccatggct gccctgaagt ggggacggaa tagactcaca 1800
ttaggtttag tttgtgaaaa ctccatccag ctaagcgatc ttgaacaagt cacaacctcc 1860
caggctcctc atttgctagt cacggacagt gattcctgcc tcacaggtga agattaaaga 1920
gacaacgaat gtgaatcatg cttgcaggtt tgagggcaca gtgtttgcta atgatgtgtt 1980
tttatattat acattttccc accataaact ctgtttgctt attccacatt aatttacttt 2040
tctctatacc aaatcaccca tggaatagtt attgaacacc tgctttgtga ggctcaaaga 2100
ataaagagga ggtaggattt ttcactgatt ctataagccc agcattacct gataccaaaa 2160
ccaggcaaag aaaacagaag aagaggaagg aaaactacag gtccatatcc ctcattaaca 2220
cagacacaaa aattctaaat aaaattttaa caaattaaac taaacaatat atttaaagat 2280
gatatataac tactcagtgt ggtttgtccc acaaatgcag agttggttta atatttaaat 2340
atcaaccagt gtaattcagc acattaatag agtaggaaag aaaccatagg aaggagagac 2400
gaaggaaaga gaaaaggggg cgccccaact agtgagctgg caccccgggg attttccggc 2460
gcggactctc agggggggtag cgggtatcga agcagctttg aagacggaga ctcgggggggg 2520
gccgggacca aattccccaa gaggggcggt tatcggcgcg cgctggcctc ggtgttaaac 2580
gccggagtgg gaacccaggg gtaccaagtt agggcttgag ccgaccgtat gttgggcttc 2640
cagctagaga ctgcaaggaa agaagaagga ggctagaggc caggatagtg gagagagaac 2700
agacgcgaga acaaggggaa atgaggacgc gaggggagag atgaggagag atagagatgt 2760
gacgagcagc gaggagagcc gggaccggag aggcaacgga gaagtgacga acgaagaaag 2820
acaagggagc gaaggaacgc agaagtggaa 2850